



CATALOG NO. C.53



VENTILATION
and Air Conditioning

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ILG BRANCH OFFICES

Albany	Greensboro, N. C.	Phoenix
Atlanta	Houston, Tex.	Pittsburgh
Birmingham	Indianapolis	Rochester
Boston	Kansas City	St. Louis
Buffalo	Lancaster, Pa.	Salt Lake City
Chicago	Los Angeles	San Antonio
Cincinnati	Memphis	San Diego
Cleveland	Milwaukee	San Francisco
Dallas	Minneapolis	Seattle
Denver	Nashville	South Bend, Ind.
Des Moines	New Haven	Syracuse
Detroit	New Orleans	Toledo
Galesburg, Ill.	New York	Tulsa
Grand Rapids	Philadelphia	Washington, D. C.

Refer to Your Local Telephone Directory for Street Address and Phone Number.

CERTIFIED RATINGS

Air deliveries are in accordance with Standard Test Code for Centrifugal and Propeller Fans adopted jointly by the National Association of Fan Manufacturers and American Society of Heating & Ventilating Engineers.

MEMBER OF
NAFM

ILG

CERTIFIED RATINGS

Ratings of unit heaters are in accordance with standard test code for unit heaters adopted jointly by the Industrial Unit Heater Association and the American Society of Heating and Ventilating Engineers.

MEMBER OF

IUHA



FOR OVER 30 YEARS the Ilg Electric Ventilating Company has produced high quality ventilating, cooling, heating and air conditioning equipment.

The insistence by Ilg on dependable service and dependable products are keynotes which have carried the Ilg name all over the world. Because the complete Ilg product including the motor is designed and built by Ilg in the Ilg factory, the user of Ilg equipment is protected by the famous Ilg one-nameplate guarantee of undivided responsibility. Service and maintenance problems are simplified and guarantees strengthened by this thorough Ilg policy. Each Ilg product is guaranteed against defects in materials and workmanship for a period of one year.

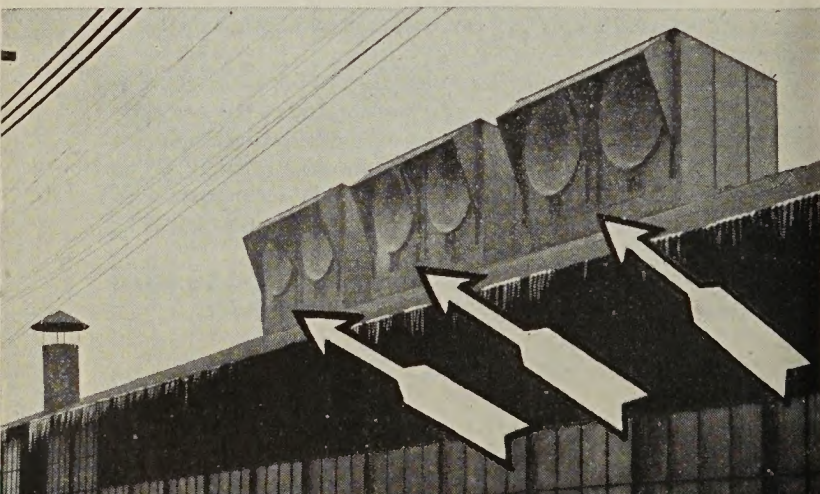
The ratings and capacities given Ilg products are dependable. Ilg fans and blowers are rated according to the test code of the American Society of Heating and Ventilating Engineers and the National Association of Fan Manufacturers, of which Ilg is a member. Ilg unit heater ratings are in accordance with the test code of the A.S.H.V.E. and the Industrial Unit Heater Association of which Ilg is a member.

Ilg products and service are available through 43 Ilg offices and through Ilg dealers and distributors everywhere.

INDUSTRIAL VENTILATION



The uses of Ilg Self-Cooled Motor Propeller Fans in industrial plants are unlimited. Ilg Sensible Ventilation corrects many types of bad air conditions ranging from the removal of noxious fumes or heat to the simple maintenance of good indoor atmosphere by the elimination of stale, dead "used" air. The air change required may vary from 1 minute to 10 minutes depending upon the conditions. Ilg fans offer low first cost and operating economy, simplicity of installation and maintenance, together with the ability to provide uniformly correct ventilation in all kinds of weather—winter and summer.



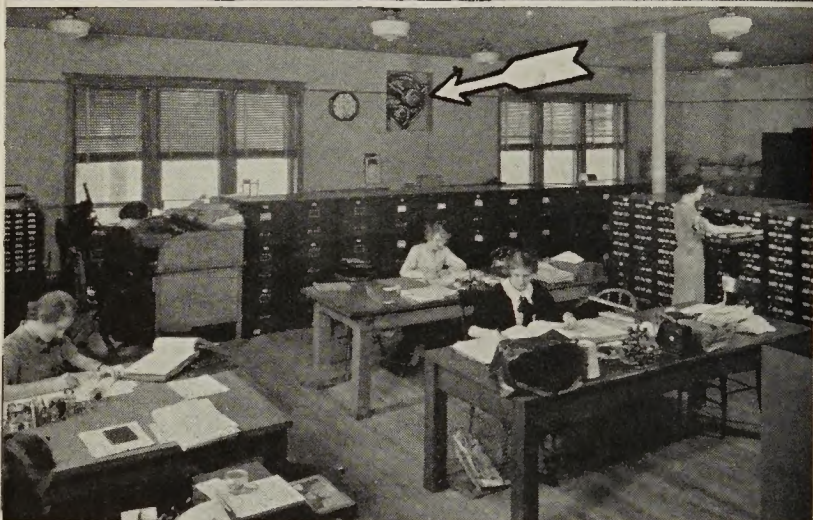
STORE VENTILATION



Excellent ventilation and cooling may be provided in any store by the use of one or more 1lg Self-Cooled Motor Propeller Fans for a 2-minute air change. The fan can be installed in the rear wall or window or in a penthouse on the roof. The rapid air movement accomplishes ventilation with an air cooling effect by constant circulation and by removing heat from lights, sun radiation, people, etc. It sweeps out odors and musty air and prevents stagnation in corners of the store. Operation of the fan during the cool of the night affords a carry-over cooling effect for added daytime comfort.



OFFICE VENTILATION

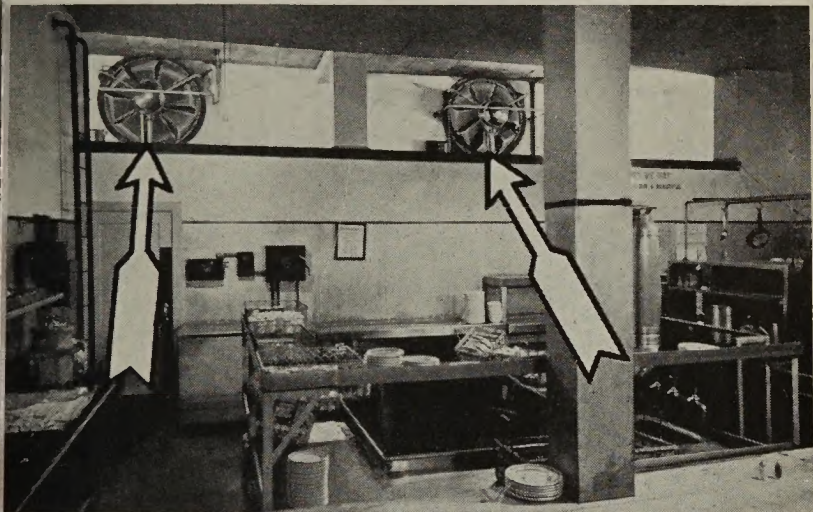


Offices of all sizes and types can be provided with proper ventilation through use of an Ilg Self-Cooled Motor Propeller Fan to provide a 2 to 5-minute air change. Installation of a fan in a wall or window, or on the roof if it is directly above, exhausting from the offices through ceiling grilles, will keep the air fresh and alive, free from staleness and odors and in constant circulation.

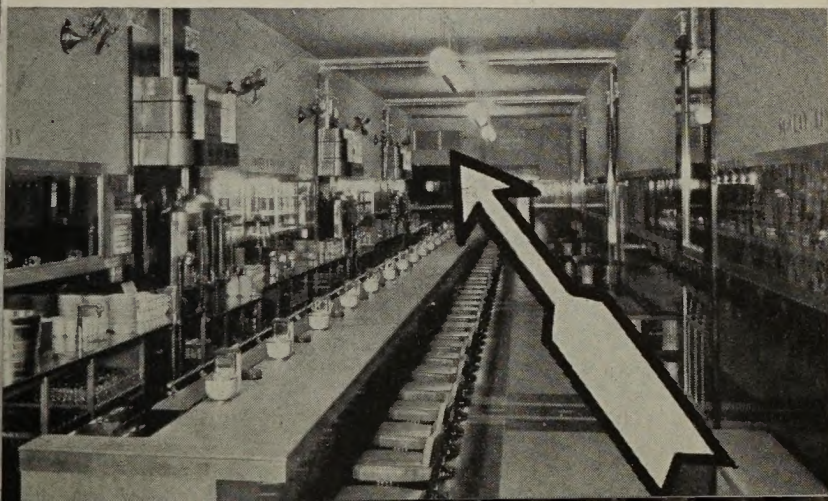
Operation of the fan during the cooler night hours will provide an added cooling effect that will substantially increase the day-long comfort in any office.



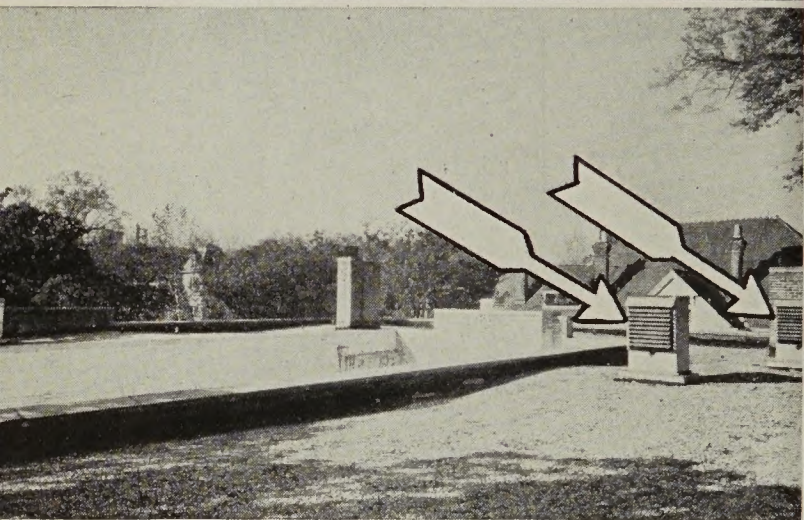
RESTAURANT VENTILATION



One or more Ilg Self-Cooled Motor Propeller Fans selected to provide a 2-minute air change will supply excellent ventilation for any restaurant. The fan should be installed in the kitchen wall or window, and a grille opening provided in the partition leading to the dining room so that the air will be drawn into the front of the restaurant, pulled the entire length of the dining room and through the kitchen where it and the cooking odors, heat and greasy fumes are exhausted outside. In addition to ventilation, excellent cooling is provided through air movement at high velocity, together with elimination of heat from lights, coffee urns, people, sun, etc.



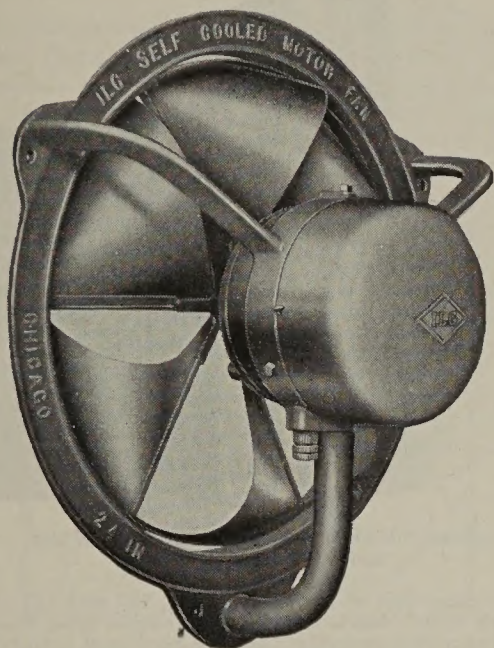
APARTMENT VENTILATION



The top floor apartment heat and ventilation problem is simply, economically, and effectively met by the use of an Ilg Self-Cooled Motor Propeller Fan to provide a 2-minute air change for the top floor. The problem is largely one of removing accumulated heat from the sun beating down directly overhead. Installation of an Ilg fan in a penthouse in the roof drawing through the attic space from each apartment through ceiling grilles, permits the thorough removal of hot air and the introduction of cooler air from outside. Operation of the system during the night provides an additional carry over of coolness that assures day long comfort.



PROPELLER FANS

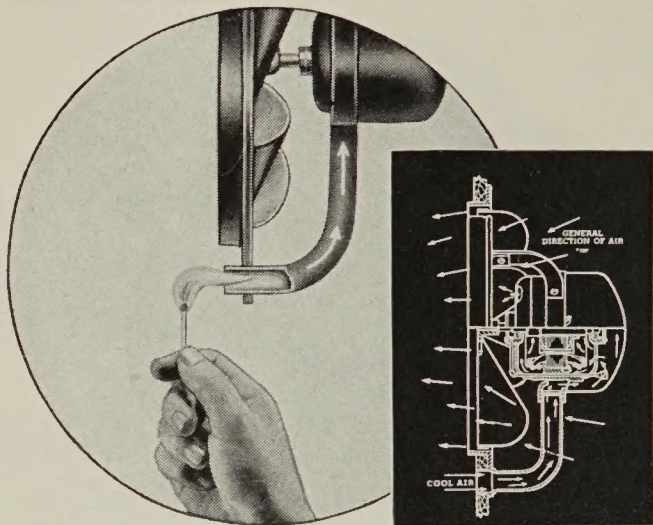


The familiar green Ilg Self-Cooled Motor Propeller Fan has become the standard by which all ventilating fans are compared. An unmatched array of features has created this preference.

An exclusive feature of the Ilg fan is the Ilg Self-Cooled Motor, the ingenious motor design which combines the low operating cost of the open motor with the protection of the fully enclosed motor. The Ilg self-cooled motor is an open motor protected and enclosed by a metal hood. It is ventilated by the fan action which draws clean air from out of doors through the vent pipe, circulates it through the motor and exhausts it. The Ilg Self-Cooled Motor stays clean, stays cool; no foul air, dust, grease, or grit can reach it.

The Ilg Self-Cooled Motor was developed solely for use with Ilg fans to meet the special conditions encountered in ventilating fan duty. This has made possible the attainment of high operating efficiencies and power factors not found in the ordinary general purpose motor. The use of a $1\frac{1}{4}$ H.P. Ilg motor in the 36" fan is an instance of balanced design for higher efficiency. A $1\frac{1}{2}$ H.P. general purpose motor would be required with consequent lower operating efficiency.

SELF-COOLED MOTOR



A lighted match shows the air suction of the self-cooling action.

With the exception of the Ilgette, 12", 16" and 18" (D. C. only) models which have wool-packed sleeve type bearings, Ilg self-cooled motor propeller fans are equipped with highest quality heavy duty ball bearings. Both grease cups are brought out in front of the motor for ease in filling.

Ilg motors are slow speed motors and Ilg Self-Cooled Motor Propeller Fans are made to operate efficiently at low speeds from the 9½" Ilgette at 1550 R.P.M. to the 72" model at 315 R.P.M. Slow speeds characterize the Ilg line. Slow speeds permit quiet operation, smoother effortless running, less vibration and bearing wear.

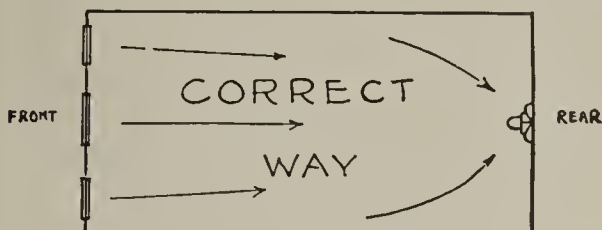
Slow speeds are possible because of the improved Ilg bucket type fan wheel which is mounted directly on the motor shaft. The deeply cupped fan blades scoop up the air working efficiently at low speeds. The Ilg fan wheel, like the Ilg motor, is dynamically balanced for smooth, vibrationless operation. Ilg fans never lose their characteristic quietness of operation for there are no belts, gears, pulleys, or couplings to wear or get out of alignment. The two motor bearings are the sole moving points.

Ilg Self-Cooled Motor Propeller Fans are available for all commercial currents and voltages and in an unparalleled range of sizes from the 9½" Ilgette to the 72" M Ilg fan with 40,500 cubic feet per minute capacity. Single phase models are available with one and two speed motors. The latter is equipped with two speed switch. Ilg two speed fans are two fans for the price of one: at top speed a reasonably quiet ventilation for peak requirements for hot weather only; at low speed, a fan which is practically noiseless ready for cold weather duty. Here is year around use, top capacity, silent operation and flexibility of performance all in one fan.

SELECTING THE FAN SIZE

The air change required in a room differs with the conditions found therein. The worse the air conditions, the faster the air should be changed; restaurants for instance need a more rapid air change than do offices. Air conditions in a given type of building are fairly uniform and it is possible to generalize on the rate of air changed advocated for various classes of buildings. Note listing below.

If it is desired to change the air in a room once each 5 minutes as an example, figure cubical contents of room by multiplying length, width and height. Divide this figure by 5, the rate of air change, giving the amount of air the fan should handle per minute. They are rated in this manner.



The figure shows the right way to install an exhaust fan. Complete circulation throughout the room is obtained by placing the fan as far as possible from the air intake.

AIR CHANGES

CLASS OF BUILDINGS

AIR SHOULD BE CHANGED

Attic cooling.....	2 minute change on floor below attic
Restaurant and Hotel Kitchens...	Every one to two minutes
Offices and Stores, depending on Climate.....	Every two to five minutes
Workrooms and factories.....	Every five to ten minutes
Residence Kitchens.....	Every one to two minutes
Garages.....	Every five to ten minutes
Theatres.....	Every two to five minutes
Halls.....	Every five minutes
Laundries.....	Every two to five minutes
Farm Barns.....	60 C.F.M. per cow 30 C.F.M. per horse

PROPELLER FAN RATINGS

Ilg Fan ratings are guaranteed to be in accordance with the test code of the American Society of Heating and Ventilating Engineers.

NOTE: In ordering fans specify exact voltage.

ALTERNATING CURRENT Constant Speed—One Phase—60 Cycle

Size	Speed R. P. M.	C. F. M.	Watts Input	Motor Frame	Shpg. Wt.	CODE* WORD
Ilgette	1550	450	40	41	12	FAGET
12" Ilgair	1140	750	70	13	23	ASPO
16" Ilgair	855	1000	100	15	48	ASPIC
16" SH	1140	1400	100	15	48	ATEND
18" SH	1140	2300	170	S87	80	ATOM
20" SH	1140	3200	250	S87	96	AZOTH
24" SH	855	4100	275	DE102	186	AUGUR
30" SH	685	7300	450	DE101	216	AXIS
36" SH	570	9650	500	104	445	AZURE
42" SH†	490	12300	800	104	550	TAZYM
48" SH†	490	18400	1300	105	780	TAZAR

*Code word indicates 110 volts. Prefix Letter "T" for 220 volts.
50 cycle speed and capacities are approximately 5/6 those shown for 60 cycle. †220 volts only.

ALTERNATING CURRENT Two Speed—One Phase—60 Cycle

Size	Speed R. P. M.	C. F. M.	Watts Input	Motor Frame	Shpg. Wt.	CODE* WORD
16" S	1140	1400	100	15	60	ATENDTS
	855	1000				
18" S	1140	2300	170	D87	84	ATOMTS
	855	1750				
20" S	1140	3200	250	D87	96	AZOTHTS
	855	2400				
24" S	855	4100	275	D102	190	AUGURTS
	600	2880				
30" S	685	7300	450	D101	220	AX1STS
	500	5420				
36" S	570	9650	500	D104	450	AZURETS
	400	6900				
42" S†	490	12300	800	D104	568	TAZYMTS
	380	9800				

*Code word indicates 110 volts. Prefix Letter "T" for 220 volts.
50 cycle speeds and capacities are approximately 5/6 those shown for 60 cycle.

These fans are equipped with two speed switch. The low speeds shown are approximate. †220 volts only.

PROPELLER FAN RATINGS

ALTERNATING CURRENT

60 Cycle—Two or Three Phase—Constant Speed

Size	Speed R. P. M.	C. F. M.	Watts Input	Motor Frame	Shpg. Wt.	CODE* WORD
18M	1140	2300	120	87	80	ACUS
20M	1140	3200	200	87	110	AGY
24M	855	4100	250	102	172	ADELO
30M	685	7300	400	101	228	ADHOC
36ML	490	8300	460	104	450	ADCO
36M	570	9650	460	104	460	ADONIS
42M	490	12300	800	104	630	ADOX
48M	490	18400	1300	105	780	ADULA
54M	425	23200	1950	107	900	ADOCY
60M	380	28400	2000	108	1150	ADRAS
72M	315	40500	2100	109	1600	ADULT

50 cycle speeds and capacities are approximately $\frac{5}{6}$ of those shown for 60 cycle. Prefix Letter "K" for 440 volts. Prefix Letter "Q" for 550 volts. *Code word indicates 220 volts.

VARIABLE SPEED CONTROLLERS

60 Cycle—Two and Three Phase

Two and three phase fan controllers are available. The two speed type gives full speed and 40% reduction. The variable speed type gives variable adjustment down to 50% reduction. Shipping weights: TWO SPEED—18"—22 lbs.; 20"—24 lbs.; 24"—31 lbs.; 30"—31 lbs.; 36"—31 lbs. VARIABLE SPEED—42"—55 lbs.; 48"—74 lbs.; 54"—94 lbs.; 60"—94 lbs.; 72"—94 lbs.

DIRECT CURRENT

Size	Speed R. P. M.	C. F. M.	Watts Input	Motor Frame	Shpg. Wt.	CODE* WORD
11gette†	1550	450	40	41	12	DFAGET
12" Ilgair	1140	750	70	100	25	ABODE
16B	1140	1400	100	1/8	48	ABIDE
18B	1140	2300	150	1/6	90	ACT
24A	855	4100	300	1197	235	ALTO
30A	685	7300	440	1199	345	ANCHOR
36A	570	9650	600	1207	450	ANTIC
42B	490	12300	800	1207	625	APEX
48B	490	18400	1300	1211	890	ART
54B	425	23200	1800	1213	1025	ARGOS
60B	380	28400	2270	1215	1520	ARK
72B	315	40500	2300	1217	1980	ASTRO

Enclosed Speed Controllers furnished with all Direct Current Fans, over 12" size.

*Code word indicates 110 volts.

†110 volts only.

Prefix Letter "T" for 220 volts. Prefix Letter "K" for 500 volts.

PROPELLER FAN RATINGS

ALTERNATING CURRENT Two Speed—25 Cycle—Single Phase

Size	Speed R. P. M.	C. F. M.	Watts Input	Motor Frame	Shpg. Wt.	CODE* WORD
†11gette	1550	450	40	41	12	OFAGET
†12" 1lgair	1425	950	100	13	35	ATAR
†16SH	1425	1750	130	15	65	ASHA
16S	1425 1000	1700 1200	130	15	65	ATENDO
18S	1425 1000	2780 1980	220	87	90	ATOMO
20S	1425 1000	3980 2840	300	87	130	AZOTHO
24S	710 500	3460 2470	290	102	190	AUBOFO
30S	710 500	7600 5420	490	101	265	AXISO
36S	475 350	8300 6000	520	104	500	AZADO
42S	475 350	12300 9000	800	104	575	AZYMO

*Code word Indicates 110 volts.

†Constant speed.

The low speeds shown are approximate.

Prefix Letter "T" for 220 volts.

These fans are equipped with 2 speed switch.

ALTERNATING CURRENT 25 Cycle—Two or Three Phase

Size	Speed R. P. M.	C. F. M.	Watts Input	Motor Frame	Shpg. Wt.	CODE* WORD
18M	1425	2780	160	87S	100	ACUSF
20M	1425	3980	200	87S	150	AGYF
24M	710	3460	290	102	225	AGILEF
30M	710	7600	490	101S	325	APIIOCF
36M	475	8300	520	104	460	ADCOF
42M	475	12300	800	104	630	ADOXF
48M	475	18400	1300	105	780	ADULAF
54M	355	19700	1600	107	900	ADOCYF
60M	355	26800	2000	108	1150	ADRASF

*Code word Indicates 220 volts.

Prefix Letter "K" for 440 volts.

Prefix Letter "Q" for 550 volts.

SPECIAL HIGH SPEED FANS

These fans are suitable for industrial or other uses where noise is no consideration. A four-blade cast aluminum wheel with regular ILG Self-Cooled Motor construction is used. The same frame is used as on regular ILG Self-Cooled Motor Propeller Fans of the same diameter. Dimensions are shown on inside back cover.

Size	R.P.M.	C.F.M.	Watts Input	Motor Frame	Shpg. Wt.	Code* Word
110 or 220 Volts 1 Phase 60 Cycles						
18HS	1750	3100	300	87	90	Hisib
24HS	1140	5500	500	102	190	Hisc
30HS†	1140	10000	750	103	265	Hsid

†220 Volts only

220 or 440 Volts 2 or 3 Phase 60 Cycles						
18HM	1750	3100	300	87	100	Hamib
24HM	1140	5500	500	102	225	Hamic
30HM	1140	10000	750	103	325	Hamid
36HM	1140	15000	1200	104	500	Hamik

110 or 220 Volts Direct Current with Regulator						
24HB	1140	5500	500	1197	235	Hobib
30HB	1140	10000	750	1207	345	Hoble

*Code word Indicates lowest voltage in each case. For the higher voltage prefix letter "K." Prefix letter "F" for 50 cycles.

FAN GUARDS

Wherever Propeller Fans are installed 7 feet or less from floor, it is well to protect them with guards.

Ilg Woven Wire Guards are strong and durable and do not obstruct flow of air to the fan. Guards can be furnished in one, two or three sections, and can be attached to any Ilg Fan in service at any time. All sections are interchangeable.



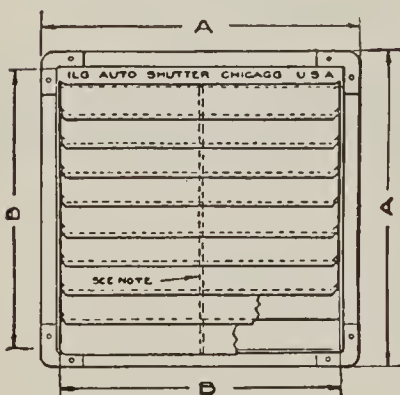
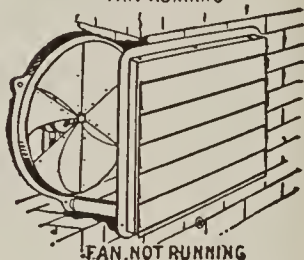
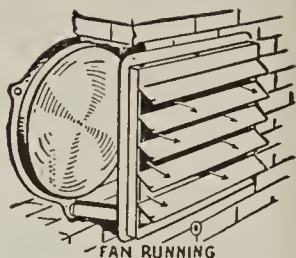
Size	Weight Complete	Code Word
Ilgette	1½ lbs.	GARET
12"....	2 lbs.	GAFF
16"....	2½ lbs.	GAGE
18"....	3½ lbs.	GAIN
20"....	4 lbs.	GALE
24"....	5 lbs.	GAMO
30"....	8 lbs.	GANG
36"....	11 lbs.	GARB
42"....	15 lbs.	GASP
48"....	24 lbs.	GATE
54"....	38 lbs.	GEAR
60"....	50 lbs.	GENT
72"....	75 lbs.	GIANT

AUTOMATIC SHUTTERS

Ilg Automatic Shutters should always be installed on the outside of propeller fans. The fan and interior of the building are thereby protected against rain and snow. The Ilg Automatic Shutter also prevents wind pressure against the fan from overloading the motor resulting in blown out fuses or, eventually, in a burned out motor.

When fan is running, the shutter is held open by force of the air current. When fan is shut off, shutter closes automatically by gravity.

Ilg Automatic Shutters are built of hard rolled aluminum leaves pressed on copper coated rods supported in a cast iron frame. Every part is completely weather resistant.



size	A	B	C	D
9 $\frac{1}{2}$ "	12"	9 $\frac{13}{16}$ "	1 $\frac{5}{8}$ "	4 $\frac{3}{4}$ "
12"	14 $\frac{1}{4}$ "	12 $\frac{3}{8}$ "	1 $\frac{3}{8}$ "	6 $\frac{1}{2}$ "
16"	18 $\frac{1}{4}$ "	16 $\frac{3}{8}$ "	2 $\frac{1}{16}$ "	7 $\frac{1}{4}$ "
18"	21 $\frac{7}{8}$ "	19"	2 $\frac{5}{8}$ "	7"
20"	24"	21"	2 $\frac{15}{16}$ "	7"
24"	28 $\frac{1}{4}$ "	25"	2 $\frac{5}{8}$ "	7 $\frac{1}{4}$ "
30"	33 $\frac{1}{2}$ "	30"	2 $\frac{7}{16}$ "	7 $\frac{1}{2}$ "
36"	41 $\frac{3}{4}$ "	38"	2 $\frac{3}{4}$ "	7 $\frac{1}{2}$ "
42"	48"	44"	3"	7 $\frac{3}{4}$ "
48"	54 $\frac{1}{8}$ "	49 $\frac{5}{8}$ "	2 $\frac{1}{2}$ "	8"
54"	60 $\frac{5}{8}$ "	56 $\frac{3}{8}$ "	2 $\frac{1}{2}$ "	8"
60"	66 $\frac{5}{8}$ "	62 $\frac{1}{8}$ "	2 $\frac{1}{2}$ "	8 $\frac{1}{2}$ "
72"	79 $\frac{1}{4}$ "	74 $\frac{5}{8}$ "	2 $\frac{1}{2}$ "	8 $\frac{1}{2}$ "

Size	Code Word	Approx. Shipping Weight	Size	Code Word	Approx. Shipping Weight
9 $\frac{1}{2}$ "*	Baa	7 lbs.	36"	Ball	112 lbs.
12"	Bab	10 lbs.	42"	Ballot	152 lbs.
16"	Babel	19 lbs.	48"	Band	188 lbs.
18"	Baby	30 lbs.	54"	Bagot	195 lbs.
20"	Back	43 lbs.	60"	Banner	210 lbs.
24"	Badge	67 lbs.	72"	Babet	314 lbs.
30"	Bag	80 lbs.			

NOTE—Size of shutter corresponds to size of fan—for example, 18-inch takes 18-inch shutter. *For the Ilgette. 48-inch and larger sizes are built in two sections.

PENTHOUSES



The use of an ILG Self-Cooled Motor Propeller Fan installed in a penthouse provides the most efficient and economical method of ventilating any building through the roof. It is positive in action and not affected by the velocity and direction of the wind. One ILG power roof ventilator will do the work of a number of ordinary roof ventilators and costs less to install.

The ILG penthouse is constructed of heavy gauge galvanized iron on a substantial angle iron frame. The fan opening is covered by a standard ILG automatic shutter as regular equipment. A door fitted into the back of the penthouse provides easy access to the fan for periodic oiling. This may be locked if desired but no lock is provided. The ILG penthouse is thoroughly water tight and weatherproof and can be furnished with an insulated lining for prevention of condensation where necessary.

Pent-house Size	Shut-ter Size	Fan Size	Inside Dimensions*			Gauge Metal	Appr. Ship. Wt.	Code Words
			Depth In.	Width In.	Height In.			
12	12	12	16	20	30	20	90	Pent
16	16	16	16	20	30	20	95	Penta
18	18	18	18	24	36	18	105	Penti
20	20	20	18	26	36	18	135	Pento
24	24	24	21 $\frac{1}{2}$	30	42	18	170	Pents
30	30	30	25 $\frac{1}{4}$	36	49	18	235	Pentu
36	36	36	27 $\frac{1}{4}$	44	58	18	400	Pentz
42	42	42	32	50	62	18	580	Pental
48	48	48	36	56	72	18	740	Pentil
54	54	54	40	63	82	16	820	Pentol
60	60	60	44	69	98	16	910	Pentul
72	72	72	48	82	102	16	1070	Pentus

Prefix Letter "I" to Code Word for Insulated Penthouse.

*The flange in the bottom is 1 $\frac{1}{8}$ " on sizes up to 48" and 1 $\frac{3}{4}$ " on larger sizes.

KITCHEN VENTILATORS



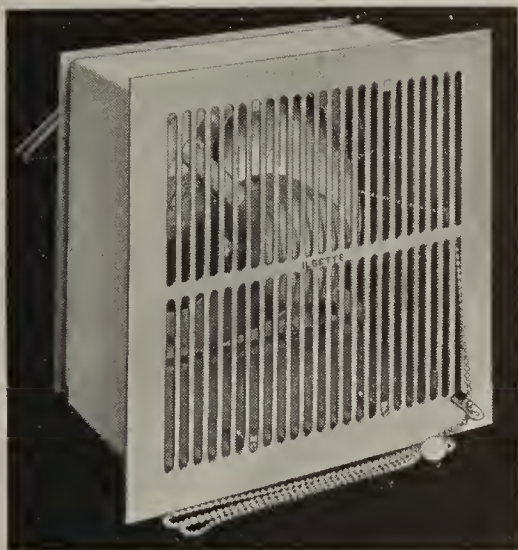
Cooking odors have no place in the home. When greasy fumes course their way from the unventilated kitchen into the other rooms of the home, they cause the housewife many difficulties. Walls and furnishings receive a film of grease and become discolored and soiled. Long before the meal is over, the home with an unventilated kitchen bears the stale musty odors that prove so embarrassing to the hostess.

The new ILG electric kitchen ventilators solve the problem at its source by exhausting the cooking odors as rapidly as they form. When the housewife begins preparation of the meal she turns on her ILG Kitchen Ventilator and keeps it running until the meal is over. As fast as they arise the fumes are swept outside and the kitchen and other rooms alike are left clean and odor free.

ILG electric kitchen ventilators are kitchen-designed and kitchen-tested. For good ventilation the air in the kitchen should be changed once every two minutes. There are Ilgette kitchen ventilators with 450 C.F.M. capacity for small kitchens and Ilgair Kitchen Ventilators with 750 C.F.M. capacity for larger kitchens.

ILG Kitchen Ventilators run quietly because of their perfect balance, slow speed and heavy duty oil lubricated bearings. Only ILG Kitchen Ventilators have the ILG Self-Cooled Motor feature by which the motor is fully enclosed and protected from the greasy fumes and ventilated with outside air through a vent pipe. Here is the economy of the open motor with the protection of the closed motor. The Ilgette uses only 40 watts, the Ilgair only 70 watts. Their shaded pole motors are non-radio interfering.

BUILT-IN TYPE



The new Built-in Ilgette and Ilgair Kitchen Ventilators are modernly styled. The trim slotted grille presents an attractive appearance to the room. A nickel silver beaded chain starts and stops the ventilator opening and closing the outer weather-tight, dust-tight one-piece door with the one motion. On the Automatic Built-in Ilgette the chain is replaced by a small motor so that the unit may be operated by a wall switch. The cabinet is made of 16-gauge rust-resisting steel. The grille and fan unit are quickly removed for installation and for cleaning and oiling.

The Built-in Ilgette cabinet is telescopic for walls of various thicknesses. The standard adjustment is $8\frac{1}{2}$ " to 13". Sleeve sections for adjustment up to 24" are also available. The grille is of aluminum alloy, brightly polished to a mirror finish. The cabinet fan and motor are finished in French gray enamel.

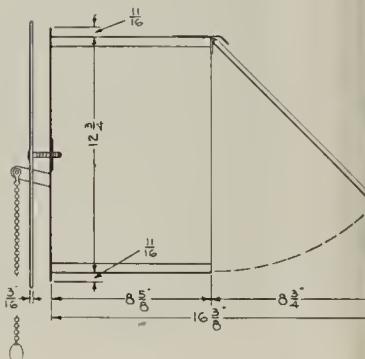
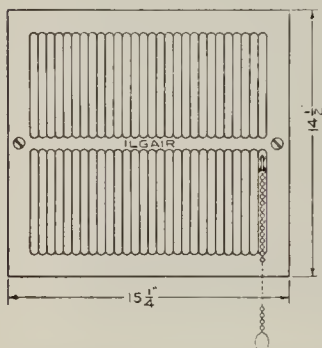
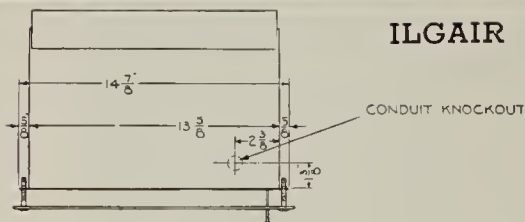
The Built-in Ilgair cabinet has a fixed depth and requires no adjustment for walls of varying thickness. It is recessed in the exterior wall surface where the wall is of greater depth. The complete unit including the cabinet, fan motor and grille is finished in baked ivory enamel.

Model	C.F.M.	R.P.M.	Watts	Shipping Weight	Code* Word
Built-in Ilgette.	450	1550	40	28	BILTET
Automatic					AUBIL-
Built-in Ilgette.	450	1550	55	29	TET
Built-in Ilgair.	750	1140	70	40	BILT

*Code word indicates 110 volts, 60 cycle A.C. Prefix letter "T" for 220 volts. Prefix letter "F" for 50 cycles. Prefix letter "D" for 110 volts D.C. and letter "O" for 25 cycle A.C.

BUILT-IN TYPE DIMENSIONS

ILGAIR



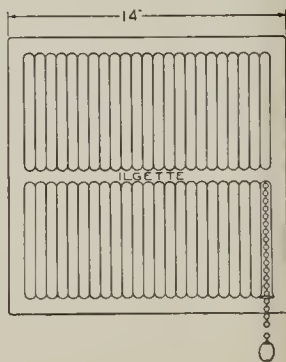
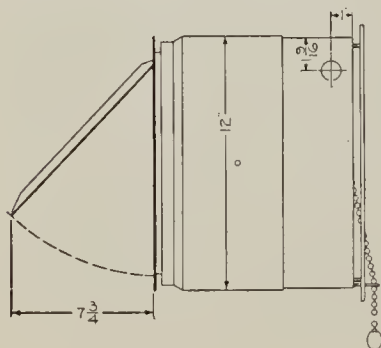
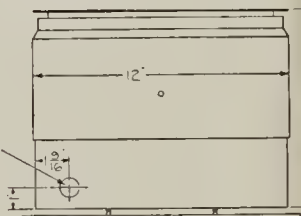
ILGETTE SLEEVE SIZES

Wall Thickness	Sleeve Size
8 1/2" to 13"	Standard
12" to 16"	10"
16" to 20"	14"
20" to 24"	18"

Unless sleeve size is specified the Standard Sleeve is furnished.

ILGETTE

CONDUIT KNOCKOUT



PORTABLE TYPE



The Portable Ilgette and Ilgair are suitable for quick installation in any ordinary window . . . just the thing for those living in rented property or for home owners who want a quick economical installation of a full-sized ventilator. Only 8 screws are required for its installation. The portable model consists of a standard Ilgette or Ilgair fan unit mounted in an adjustable panel. The unit is installed in the top of the window frame, the panel extension providing for various window widths as follows:

26" size—adjustable 26" to 36".

36" size—adjustable 36" to 46".

Larger panel sizes on order.

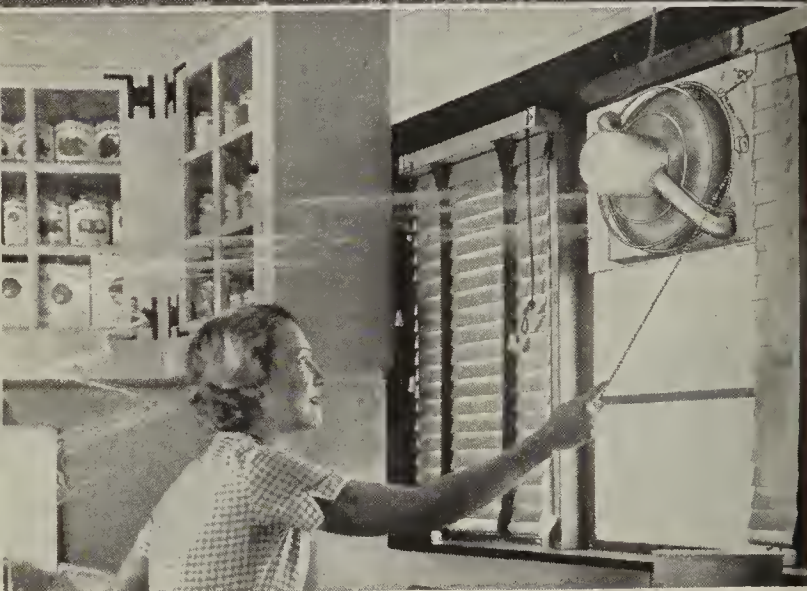
When operating the fan the upper sash is lowered to the bottom edge of the panel which does not interfere with the moving or locking of the window nor the hanging of curtains.

Both the Portable Ilgette and the Portable Ilgair are finished in baked ivory enamel and come complete with fan guard, rubber covered cord and plug, off and on switch and metal sash lifting handles.

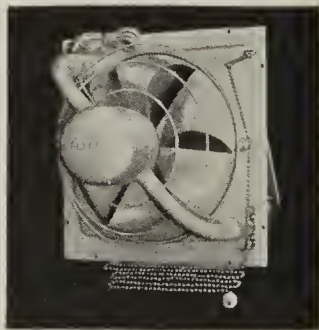
Model	C.F.M.	R.P.M.	Watts	Shipping Weight	Code* Word
Portable Ilgette	450	1550	40	22	Portet
Portable Ilgair	750	1140	70	35	Port

*Code word indicates 110 volts, 60 cycle A.C. Prefix letter "T" for 220 volts. Prefix letter "F" for 50 cycles. Prefix letter "D" for 110 volts D.C. and letter "O" for 25 cycle A.C.

PACKAGE TYPE



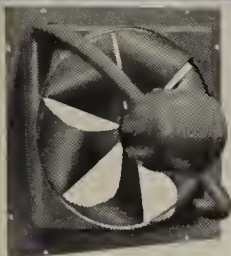
The Package Ilgette is suitable for permanent installation in casement and other small panelled windows and in double hung windows provided with muntins to frame unit in glass. The Package Ilgette is thoroughly weathertight, the outer door sealing the fan case tightly shut when the beaded chain is released to stop the fan. The fan is protected with a sturdy steel guard. The complete unit is finished in baked ivory enamel. The 12" x 12" panel may be cut down with a hack saw where necessary.



Model	C.F.M.	R.P.M.	Watts	Shipping Weight	Code* Word
Package Ilgette....	450	1550	40	14	Paket

*Code word indicates 110 volts, 60 cycle A.C. Prefix letter "T" for 220 volts. Prefix letter "F" for 50 cycles. Prefix letter "D" for 110 volts D.C. and letter "O" for 25 cycle A.C.

FAN UNITS



Both the Ilgette and Ilgair fans are available as bare units for kitchen, basement, rumpus room and garage ventilation. Weather protection can be provided by the Ilgette and 12" Automatic shutters as listed on page 14. Guards are shown on page 13.



The Ilgette fan is mounted in a die cast panel measuring 12" square. The complete unit is finished in Ilg Green. The depth overall is 7 $\frac{3}{8}$ ".

The 12" Ilgair is mounted in a round cast iron ring following the construction of the standard Ilg Self-Cooled Motor Propeller Fans. Dimensions of the 12" Ilgair are given in the table on inside back cover. The complete unit is finished in Ilg Green.

Models	C.F.M.	R.P.M.	Watts	Shipping Weight	Code* Word
Ilgette	450	1550	40	12	FAGET
12" Ilgair	750	1140	70	23	ASPO

*Code word indicates 110 volts, 60 cycle, A.C. Prefix letter "T" for 220 volts. "F" for 50 cycles. "D" for 110 volts D.C.

DARK ROOM VENTILATORS



This unit was designed particularly for removing foul air, dampness, and odors from dark rooms. A scientifically designed baffle positively prevents the introduction of light whether the fan is on or off. Available in Ilgette and Ilgair sizes, the air in the average dark room can be changed once every two minutes. By means of an ordinary extension cord and plug the unit can be used on the regular light circuit.

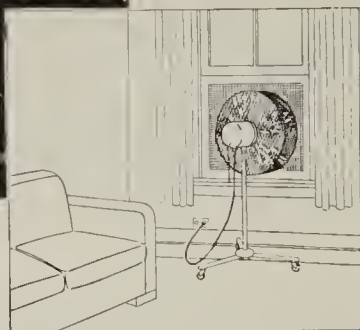
Size	Speed	C.F.M.	Watts Input	Shipping Weight	Code* Word
Ilgette.....	1550	450	40	40	Darket
12" Ilgair.....	1140	750	70	69	Dark

*Code word indicates 110 volts, 60 cycle A.C. Prefix letter "T" for 220 volts. "F" for 50 cycles. "D" for D. C. "O" for 25 cycle A. C.

ILG-ROLLAIRE



No window connection is needed.



The New Portable
High Volume Fan
for Night Air
Cooling of Apart-
ments and Homes

The new Ilg-Rollaire brings night cooling and ventilating to the apartment tenant and home renter. Here is a quiet high capacity ventilating fan mounted on rubber casters that can be simply rolled up to an open window, plugged in and it's ready for operation. By opening one or more windows in other rooms, the cooler night air is drawn in through those windows and circulated through the house. No connection is needed between the fan and the window.

The two speed motor is of capacitor type, free from radio interference. The fine mesh guard 25" wide, protects children's fingers from injury. The casters are equipped with adjustable brakes to prevent "creeping". Consumes 170 watts.

The fan height is adjustable from 41" to 56" from floor to center of wheel. The fan is completely finished in bright chromium and is equipped with 20 feet of rubber covered cord and plug. The air capacity carries a certified A.S.H.V.E. rating.

SPECIFICATIONS

Model	Air Capacity C.F.M.	R.P.M.	WEIGHT		Code* Word
			Net	Shipping	
428	2600 /1950	1140 /855	68	110	ROLLA

*Code word indicates 110 volts 1 phase. Prefix letter "F" for 220 volts.

FILTER TYPE ILGAIRATORS



The Filter-Type Ilgairator is an electric fan and air filter unit that can be used with any sliding sash window for supplying fresh, filtered air to a room. Dust, soot, and plant pollens that are injurious to good health, aggravate respiratory disorders and cause discomfort are filtered out of the air with over 98% efficiency.

The air volume is controlled by a regulator on the front panel. The No-Draft grille may be revolved to deflect the air in any direction.

The Filter Type Ilgairator is quiet and can be used satisfactorily in any office, bedroom, hospital ward, etc.

The cabinet is made of furniture steel attractively proportioned and finished in natural walnut grain. 6 adjustable panel widths are furnished for various window widths as listed below. Other widths are available on order. The installation does not interfere with opening, closing or locking the window. The filter is replaceable; a new cartridge is easily inserted. The Filter Type Ilgairator is furnished with all necessary accessories including rubber covered cord and plug and operates from any electric light socket.

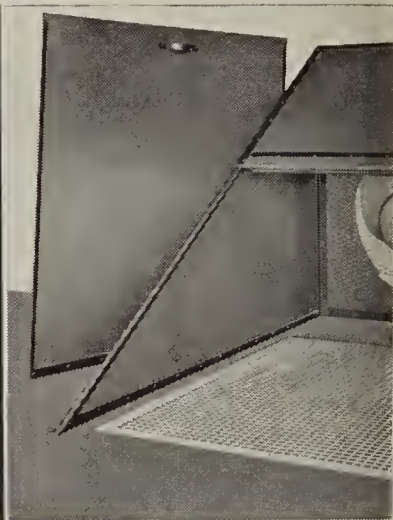
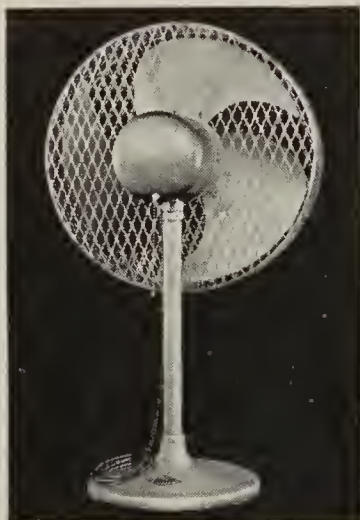
Size No.	Panel Adjust-ment	Air Capacity	Speed	Watts	Ship- ping Weight	Code* Word
BM388	24"-26"	250 C.F.M.	1550 R.P.M.	40	35 Lbs.	Quota
	26"-30"				35 Lbs.	Quiet
	30"-36"				38 Lbs.	Queer
	36"-45"				42 Lbs.	Quest
	45"-58"				46 Lbs.	Query
	58"-78"				52 Lbs.	Quips

*Code word indicates 110 volts, 1 phase, 50 or 60 cycle.

For 220 volts prefix the letter "T".

For 110 volts D.C. prefix the letter "D".

ILGWIND ATTIC FANS



The new Ilgwind attic fans for home cooling and ventilating are direct-connected, the fan wheel mounted directly on the motor shaft. Having only one moving part, oiling the motor is the only maintenance needed. There are no parts to be worn by friction on the Ilgwind. Running at moderate speeds, the new Ilgwind fans maintain their rated capacity effectively against the resistance caused by drawing air through a house. They run as quietly as a breeze. Two types are available, both with two speed motors. Ilgwind fans carry certified A.S.H.V.E. ratings.

The regular Ilgwind fan requires no installation whatever. It is simply placed in front of an open attic or hall window and plugged in to the nearest electric outlet.

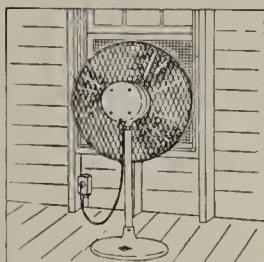
The fan adjusts to the window height. The whole unit is mounted on rubber. A two piece diamond mesh guard is standard.

The No. 331S Southern Type Ilgwind consists of the No. 331 Ilgwind fan mounted on a short stem for use in a suction box. This type of installation is used where the attic construction is too open to use the regular Ilgwind. An Ilg suction box complete with grille is available as extra equipment. Aside from the making of a grille opening in the floor, only a screw driver is required to assemble the Ilg suction box.

The grille size is 36"x48".

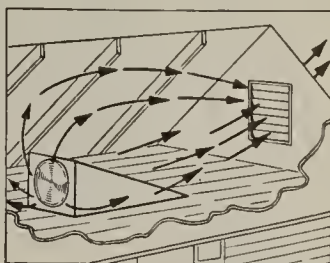
Box can be furnished with or without a built in fire switch which closes grille and shuts off fan as required in some States.

FOR HOME COOLING



The regular type Ilgwind fan is quickly placed in front of an open attic or hall window and needs no window connection for efficient operation. By running it during the evening and night, the cooler night air is drawn through the house through every open window.

The Southern Type Ilgwind fan with Ilg or home made suction box should be used where the attic construction is open. The air is drawn directly from the floor below and discharged into the attic. Openings in the eaves or end walls should be provided to allow the air to escape easily.



FAN SPECIFICATIONS

Model	R.P.M.	Capacity C.F.M.	Watts	Height Floor to Hub	WEIGHT		Code* Word
					Net	Ship- ping	
271	1140	4400	370	41" to 65"	95	165	Winkl
	855	3080	185				
331	855	7600	450	39" to 63"	160	260	Windo
	600	5500	345				

SOUTHERN TYPE

331S	855 600	7600 5500	450 345	25"	150	220	Winsr
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Suction Box	Height 48"	Width 48"	Length 72"	175	225	Winssbt
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*Code word indicates 110 volt 1 phase. Prefix letter "P" for 220 volts.

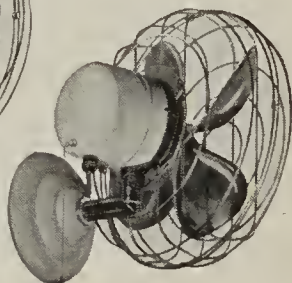
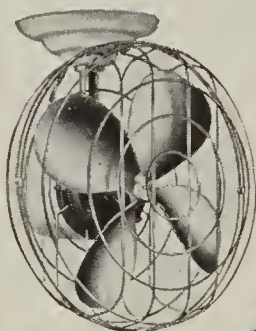
†Code word indicates suction box without fire switch. Prefix letter "s" if switch is required.

ILGSTREAM FANS

The Ilgstream is a new type air disturbance fan for store, restaurant, office, etc. It has high volume to cover wide floor areas but operates at low speed for quietness. The Ilgstream fan is a deluxe unit beautifully styled, attractively finished in chromium and crackle enamel and built to fit ILG ventilating fan standards.

The floor model has an adjustable head for directing the air up or down. The universal model is for wall, ceiling or display case mounting. A universal adjustment permits the quick adjustment of the fan at any angle. A sturdy chromium plated guard protects the Ilgstream fan.

The ceiling and wall installation of the universal type Ilgstreams are shown here operated by a pull chain or wall switch.



Cat. No.	Type	No. of Speeds	R.P.M.	Watts	Capacity C.F.M.†	Ship. Wt.	Ov'll Ht.
23-F2	Floor	2	1140-855	220	4200-3150	140	102"
23-U2	Univ.	2	1140-855	220	4200-3150	100	25"
23-F1	Floor	1	1140	220	4200	140	102"
23-U1	Univ.	1	1140	220	4200	100	25"
27-F2	Floor	2	855-600	375	7000-4900	240	105"
27-U2	Univ.	2	855-600	375	7000-4900	175	39"
27-F1	Floor	1	855	375	7000	240	105"
27-U1	Univ.	1	855	375	7000	175	39"
33-F2	Floor	2	685-500	530	12000-8600	500	108"
33-F1	Floor	1	685	530	12000	500	108"

†Capacity includes induced air volume.

‡Code word indicates 110 volt 1 phase. Prefix letter "F" for 220-volt, letter "D" for D.C.

The low speeds shown are approximate.

PORTABLE FLOOR FANS

The ILG Portable Floor Fan affords practical, sensible and economical means of relief wherever the workman must endure the evils and discomforts of intense heat. Hot spots, closely confined departments and hot air pockets all yield to the 90 ft. blast of cooling, refreshing air when the ILG portable floor fan covers them.

This big man-cooling fan can be placed anywhere. It is portable, self-contained, completely equipped and ready to handle any heat problem. Running at high speed, this fan should be used where its air noise is not a consideration.

The propeller is of the four-blade type, capable of hurling a tremendous blast of air in a straight line. It is of one-piece aluminum construction, keyed to the motor shaft. Heavy steel mesh guards cover the fan in front and back offering complete protection of fan and user.

Equipped with a heavy cast iron base the ILG Portable Floor Fan has a very low center of balance. It can be safely moved on a scoop truck. An eye is also provided so that it can be moved by a crane if desired. A starting switch completes the equipment on the fan. The 12" size is furnished with extension cord and plug.



Size	CFM*	RPM	Watts Input	Weight	Code† Word
12"	3200	3400	230	140	Flot
24"	8000	1140	500	350	Flin
30"	16000	1140	750	400	Fret
36"	24000	1140	1200	550	Fran

*Capacities include induced air volume.

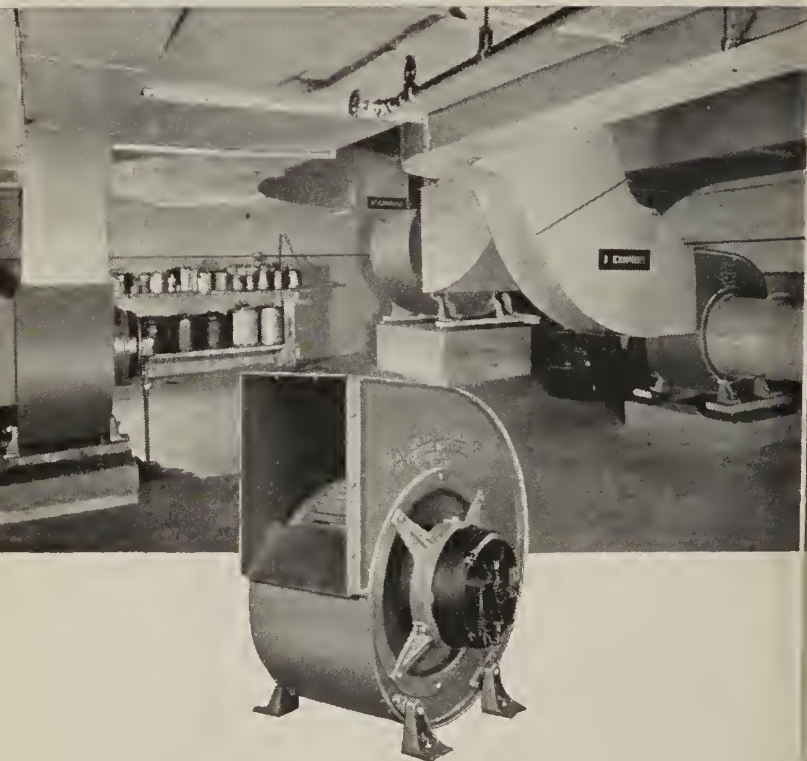
12" size available in 110 or 220 volts 1 phase only and D.C.

†Code word for 12" size indicates 110 volt single phase; for 220 volts prefix letter "T."

For all other sizes, the code words indicate 220 volts, 3 phase A.C.; for 440 volts prefix letter "F."

Prefix letter "D" for Direct current.

TYPE "B" UNIVERSAL BLOWERS



The ILG Type "B" Direct-Connected Universal Blower is adaptable to all kinds of ventilating and air conditioning work. This blower is equipped with an ILG motor that is partially recessed within the housing eliminating the necessity of a separate motor base. The blower wheel is mounted directly on the shaft of the motor making a single moving unit rotating on the two motor ball bearings. There is no bearing in the inlet. Misalignment is impossible on the ILG motor.

The multiblade wheel is statically and dynamically balanced for quietness and long bearing life. The blades are spot welded for permanent rigidity.

ILG Type "B" Blowers up to and including the 60" size have cast iron sides. The larger sizes have sheet steel sides reinforced with cast steel spiders. The use of these solid sturdy sides results in extra quietness. The blower scroll is formed of heavy sheet steel. The complete blower is mounted on four legs. Sixty-four standard discharges for wall, floor or ceiling use are available through relocation of the legs. The blower may be changed from clockwise to counter clock-

wise discharge or vice versa at any time merely by interchanging the motor assembly and inlet and turning the wheel around.

The motor is designed and built by ILG Type B blowers in accordance with A.I.E.E. standards. Its operating characteristics are unmatched by the ordinary motor built for general all around duty.

Because the entire ILG Type "B" Direct-Connected Universal Blower including the motor is made by ILG, one guarantee, one undivided responsibility covers the complete unit. It is available in eleven sizes with motors wound for all commercial electrical power circuits and voltages.

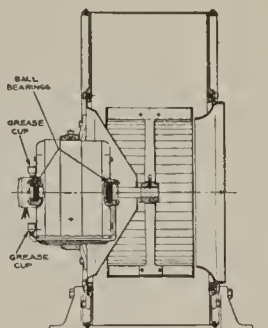
The first cost of any blower and drive is only one of the five factors that must be considered in estimating the cost of that blower in use. The other four factors are space cost, installation cost, maintenance and operating cost, and sound isolation cost. All of these four economies are available only in ILG Direct-Connected Blowers.

The ILG Direct-Connected Blower occupies less space than a blower having separate motor base and driven either through a coupling or by belts and pulleys.

The installation cost with the ILG blower is much less since the whole blower mounted on four legs can be quickly and cheaply bolted to the floor or mounted on a single pedestal. Ordinary blowers require the purchase of belts, pulleys, belt guards, erecting of pedestals for blower and for motor, alignment of pulleys, tightening of belts, etc.

The maintenance economy of the ILG Direct-Connected Blower is outstanding. The only attention required is periodic lubrication of the anti-friction motor ball bearings. There are no wearing parts and no misalignments can develop since the motor and wheel operate as a unit.

Extra sound-and-vibration dampening facilities can be supplied for ILG blowers at much lower cost than is possible on ordinary blowers through use of the patented ILG Floated-Drive described on page 31. Isolating the wheel and the motor as a unit from the blower housing is also more effective in sound dampening than the ordinary method of mounting the whole installation on an isolation material.



ILG TYPE "B" DIRECT CONNECTED UNIVERSAL BLOWERS

Speed, Capacity and Brake Horse Power at Various Pressures—For 60 Cycle and Direct Current

Size	RPM	Wh. Dia.	1/8"		1/4"		3/8"		1/2"		5/8"		3/4"		7/8"		1"		1 1/8"		1 1/4"		1 1/2"	
			CFM	HP	CFM	HP	CFM	HP	CFM	HP	CFM	HP	CFM	HP	CFM	HP	CFM	HP	CFM	HP	CFM	HP	CFM	HP
B25	685		1750	.29		.26		.23		.47														
	855	12 3/4	2265	.58		.54		.51	1860		1715	.44												
	1140										2700	1.23	2600	1.18	2490	1.13	2390	1.09	2280	1.04	2160	.98	1830	.83
B30	685		3310	.80		.75		.71	2690	.65	2455	.60												
	855	15 1/2									3550	1.32	3380	1.26	3200	1.19	3000	1.12	2795	1.04	2500	.93		
	1140																						4340	2.86
B35	570		3744	.71		.66		.60	2770	.54														
	685	18 1/4	4640	1.28		1.20		1.14	3880	1.06	3600	1.00	3285	.91										
	855										5090	2.16	4880	2.07	4665	2.00	4440	1.90	4190	1.79	3930	1.68	4787	2.47
B40	570		5890	1.49		1.40		1.32	4800	1.22	4432	1.13	3970	1.02										
	685	21							6340	2.33	6030	2.22	5720	2.15	5370	1.98	5000	1.85	4560	1.69				
	855										8200	4.65	7920	4.51	7740	4.40	7474	4.25	7200	4.10	6950	3.98	8370	5.56
B45	490		7330	1.72		1.60		1.51	5900	1.40	5070	1.21	4660	1.12										
	570	23 3/4	8720	2.75		2.64		2.52	7530	2.40	7080	2.25	6620	2.12										
	685										9300	4.40	8950	4.25	8620	4.09	8250	3.92	7850	3.74	7450	3.55	9020	5.00
B50	490		10420	3.05		2.90		2.75	8850	2.60	8300	2.45	7680	2.26										
	570	26 1/2									10450	4.18	10000	4.00	9520	3.83	9000	3.50	8400	3.41	7750	3.15	9500	4.48
B55	425		12180	3.32		3.15		2.99	10150	2.79	9370	2.58	8550	2.35										
	570	29 1/4									14680	7.15	14150	6.91	13620	6.66	13100	6.40	12520	6.14	11920	5.85	14400	7.03

Size	RPM	Wh. Dia.	1/8"		1/4"		3/8"		1/2"		5/8"		3/4"		7/8"		1"		1 1/8"		1 1/4"		1 1/2" *	
			CFM	HP	CFM	HP	CFM	HP	CFM	HP	CFM	HP	CFM	HP	CFM	HP	CFM	HP	CFM	HP	CFM	HP	CFM	HP
B60	380		14200	3.60	13400	3.40	12550	3.20	11700	3.00	10720	2.76	9600	2.49	8470	2.23	7470	2.00	6500	1.79	5600	1.59	4700	1.40
	490	32	.....	.....	.....	.....	.....	.....	.....	.....	61100	6.82	15450	6.55	14770	6.30	14070	6.00	13300	5.70	12480	5.35	11520	5.00
B70	340		20720	5.80	19700	5.52	18550	5.21	17430	4.92	16230	4.60	14970	4.23	13720	3.92	12500	3.60	11250	3.27	10000	2.95	8750	2.63
	380	37 1/2	.....	.....	.....	.....	.....	.....	20400	7.18	19410	6.82	18400	6.48	17220	6.10	16000	5.68	14500	5.17	13000	4.75	11500	4.33
B80	425		.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	23080	10.11	22200	9.75	21280	9.32	20250	8.91	19230	8.50	18100	8.00
	285		26100	6.70	24600	6.31	23050	5.92	21480	5.52	19800	5.10	17880	4.63	16100	4.23	14400	3.82	12700	3.41	11000	3.00	9300	2.59
B90	340	43	.....	.....	.....	.....	.....	.....	.....	.....	26820	9.90	25500	9.40	24130	8.90	22600	8.38	20790	7.70	18500	7.00	16000	6.20
	245		32100	7.70	30150	7.25	28100	6.80	26000	6.30	23750	5.78	21000	5.12	18750	4.50	16500	4.00	14250	3.50	12000	3.00	9750	2.50
B90	285	48 1/2	.....	.....	.....	.....	.....	.....	33000	10.73	31250	10.22	29420	9.66	27250	9.05	24800	8.17	22000	7.30	19250	6.40	16500	5.50
	310		.....	.....	.....	.....	.....	.....	.....	.....	35500	13.93	33900	13.22	32150	12.63	30350	11.92	28300	11.22	25850	10.22	23190	9.15

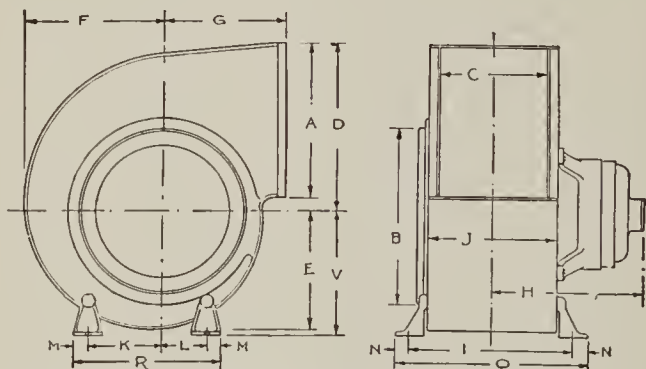
*These capacities are for Blowers with Whiting Wheels.

SHIPPING WEIGHTS IN POUNDS

Current	B25	B30	B35	B40	B45	B50	B55	B60	B70	B80	B90
2-3 phase.....	225	360	470	700	800	950	1200	1400	2050	2850	3325
1 phase.....	250	405	550	725	850	1040	.....	.....	.....	.....	.....
D. C.....	360	410	600	850	1020	1200	1600	1900	2500	3400	4100

These weights are approximate depending upon the speed. See ILG blower catalogue for exact weights.

Dimensions of Type "B" Direct Connected Universal Blowers

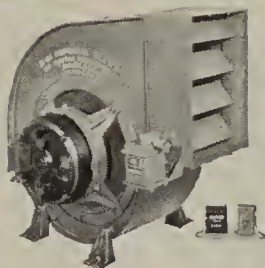


Blower is shown for discharge 1F, 24C, 46W, 57W. Motor is on opposite side for discharge 2F, 23C, 45W, 58W.

Size	Wheel Diam.	A	B	C	D	E	F	G	H AC	H DC
25	12 $\frac{3}{4}$	13	13	9	14 $\frac{1}{8}$	10	11 $\frac{3}{4}$	10 $\frac{1}{8}$	14 $\frac{3}{4}$	19 $\frac{1}{2}$
30	15 $\frac{1}{2}$	16	16	11	17 $\frac{3}{8}$	12 $\frac{1}{8}$	14 $\frac{1}{4}$	12	14 $\frac{3}{4}$	19 $\frac{1}{2}$
35	18 $\frac{1}{4}$	19	19	13	20 $\frac{1}{2}$	14 $\frac{1}{4}$	16 $\frac{3}{4}$	14	15	23 $\frac{1}{2}$
40	21	22	22	15	23 $\frac{5}{8}$	16 $\frac{3}{8}$	19 $\frac{1}{4}$	16	18 $\frac{1}{2}$	24
45	23 $\frac{3}{4}$	25	25	17	26 $\frac{3}{4}$	18 $\frac{1}{2}$	21 $\frac{3}{4}$	18	19	24
50	26 $\frac{1}{2}$	28	28	19	29 $\frac{7}{8}$	20 $\frac{5}{8}$	24 $\frac{1}{4}$	20	19	30
55	29 $\frac{1}{4}$	31	31	21	33	22 $\frac{3}{4}$	26 $\frac{3}{4}$	22	21 $\frac{1}{2}$	31
60	32	34	34	23	36 $\frac{1}{8}$	24 $\frac{7}{8}$	29 $\frac{1}{4}$	24	24	31
70	37 $\frac{1}{2}$	40	40	27	41 $\frac{5}{8}$	30 $\frac{1}{8}$	35 $\frac{1}{4}$	27 $\frac{1}{8}$	28	36 $\frac{1}{2}$
80	43	46	46	31	48 $\frac{1}{8}$	34 $\frac{3}{8}$	40 $\frac{1}{4}$	31 $\frac{1}{8}$	30	38
90	48 $\frac{1}{2}$	52	52	35	54 $\frac{1}{8}$	38 $\frac{5}{8}$	45 $\frac{1}{4}$	34 $\frac{5}{8}$	32	42

Size	I	J	K	L	M	N	O	P	R	V
25	14 $\frac{1}{4}$	10 $\frac{1}{4}$	6	3 $\frac{3}{4}$	1 $\frac{1}{4}$	3 $\frac{3}{4}$	15 $\frac{3}{4}$	5 $\frac{5}{8}$	12 $\frac{1}{4}$	10 $\frac{1}{2}$
30	17	12 $\frac{1}{2}$	7 $\frac{1}{4}$	4 $\frac{1}{2}$	1 $\frac{1}{2}$	1	19	5 $\frac{5}{8}$	14 $\frac{3}{4}$	12 $\frac{3}{4}$
35	19 $\frac{3}{4}$	14 $\frac{3}{4}$	8 $\frac{1}{2}$	5 $\frac{1}{4}$	1 $\frac{3}{4}$	1 $\frac{1}{8}$	22	5 $\frac{5}{8}$	17 $\frac{1}{4}$	14 $\frac{3}{4}$
40	22 $\frac{1}{2}$	17	9 $\frac{3}{4}$	6 $\frac{1}{4}$	2	1 $\frac{3}{8}$	25 $\frac{1}{4}$	3 $\frac{3}{4}$	20	17
45	25 $\frac{1}{4}$	19 $\frac{1}{8}$	11	7	2 $\frac{1}{4}$	1 $\frac{5}{8}$	28 $\frac{1}{2}$	3 $\frac{3}{4}$	22 $\frac{1}{2}$	19
50	28 $\frac{1}{4}$	21 $\frac{3}{8}$	12 $\frac{1}{2}$	8	2 $\frac{1}{2}$	1 $\frac{3}{4}$	31 $\frac{3}{4}$	7 $\frac{7}{8}$	25 $\frac{1}{2}$	21
55	31	23 $\frac{5}{8}$	13 $\frac{3}{4}$	8 $\frac{1}{2}$	2 $\frac{3}{4}$	2	35	7 $\frac{7}{8}$	27 $\frac{3}{4}$	23 $\frac{1}{2}$
60	33 $\frac{3}{4}$	25 $\frac{7}{8}$	15	9 $\frac{1}{2}$	3	2 $\frac{1}{4}$	38 $\frac{1}{4}$	1	30 $\frac{1}{2}$	25 $\frac{1}{2}$
70	38	30	15	10	3 $\frac{1}{2}$	3	44	1	32	30 $\frac{1}{2}$
80	43	30 $\frac{5}{8}$	17	12	4	3 $\frac{1}{2}$	50	1 $\frac{1}{8}$	37	35
90	49	34 $\frac{5}{8}$	19	14	4 $\frac{1}{2}$	4	57	1 $\frac{1}{8}$	42	39

VARIABLE AIR CONTROLLERS



The ILG Variable Air Controller consists of a bank of vanes interconnected and operated manually or by remote electrical control. It is placed in the outlet of the blower.

This patented ILG device makes possible efficient air volume control with the simple constant speed squirrel cage motor direct-connected to the blower. Its advantages over the use of a variable speed slip ring motor are:

- Improved power factor

- Simplicity of operation

- Compactness

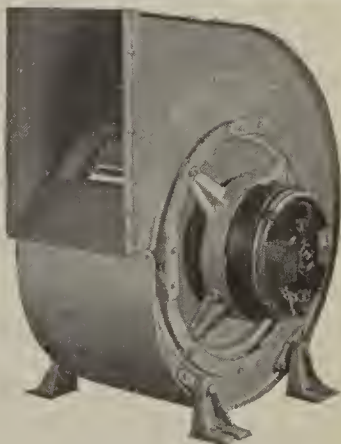
- Freedom from complicated maintenance work

It can be used on any Type "B" Direct-Connected Universal Blower.

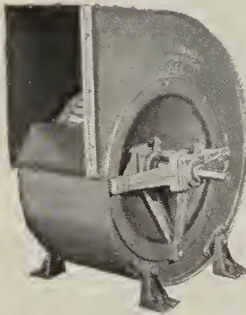
FLOATED-DRIVE

ILG Type "B" and Type "BC" Direct-Connected Universal Blowers may be fitted with the patented ILG Floated-Drive bracket where sound and vibration isolation is desired. The standard ILG motor bracket is mounted in a second, floating bracket which is insulated from the blower housing to which it is secured, by flexible rubber cushions. This total elimination of metal to metal contact affords very effective sound and vibration isolation.

The ILG Floated Drive can be mounted on any ILG Type "B" or Type "BC" Direct-Connected Universal Blower at any time. It is available for ILG belted blowers also.



TYPE "BW" BLOWERS



The ILG Type "BW" Blower housing construction is similar to that of the direct-connected ILG blowers. The wheel has forward curved blades and is overhanging on a shaft which runs on two heavy duty grease lubricated ball bearings set in a bracket mounted on the blower side. There is no bearing or other obstruction in the inlet. Full universal discharge is possible including right or left hand drive without changing the wheel. "BW" blowers are available in single width, single inlet and double width, double inlet models.

BW-25—WHEEL DIA. 12 $\frac{3}{4}$ ". OUTLET AREA .812 SQ. FT.

Tip Speed	R.P.M.	$\frac{1}{4}$ " S.P.		$\frac{1}{2}$ " S.P.		$\frac{3}{4}$ " S.P.		1" S.P.	
		CFM	H.P.	CFM	H.P.	CFM	H.P.	CFM	H.P.
2310	700	1650	.27	1250	.23	.....	.....	.....	.....
2805	850	2125	.54	1840	.47	1520	.39	.....	.....
3300	1000	2565	.89	2345	.81	2110	.72	1845	.64
3795	1150	3030	1.40	2830	1.32	2630	1.22	2420	1.13
4290	1300	3470	2.07	3290	1.96	3115	1.85	2930	1.75
4785	1450	3910	2.90	3755	2.78	3600	2.67	3435	2.55
5380	1600	4340	3.97	4210	3.84	4075	3.73	3925	3.59
5460	1625	4420	4.21	4290	4.07	4160	3.94	4020	3.80

BW-30—WHEEL DIA. 15 $\frac{1}{2}$ ". OUTLET AREA 1.22 SQ. FT.

2440	600	2640	.42	2100	.38	.....	.....	.....	.....
2740	675	3050	.73	2625	.62	2070	.48	.....	.....
3340	825	3900	1.37	3550	1.25	3175	1.12	2760	.97
3640	900	4290	1.78	3990	1.62	3670	1.50	3330	1.36
4240	1050	5120	2.88	4850	2.73	4575	2.58	4300	2.40
4540	1125	5510	3.56	5270	3.40	5000	3.23	4750	3.06
5140	1275	6300	5.20	6080	5.03	5850	4.83	5630	4.65
5440	1350	6700	6.17	6475	5.96	6260	5.75	6050	5.55

BW-35—WHEEL DIA. 18 $\frac{1}{4}$ ". OUTLET AREA 1.715 SQ. FT.

2630	550	4060	.88	3420	.74	2490	.52	.....	.....
2870	600	4650	1.19	3960	1.02	3330	.85	.....	.....
3350	700	5480	1.96	5000	1.77	4480	1.58	3920	1.36
3820	800	6400	2.96	5960	2.77	5520	2.55	5080	2.30
4300	900	7300	4.30	6920	4.05	6520	3.82	6130	3.57
4770	1000	8200	6.00	7870	5.70	7500	5.40	7150	5.15
5250	1100	9100	8.10	8780	7.70	8480	7.45	8100	7.00
5490	1150	9550	9.10	9250	8.90	8930	8.50	8600	8.30

BW-40—WHEEL DIA. 21". OUTLET AREA 2.29 SQ. FT.

2480	450	4980	.92	4070	.75	.....	.....	.....	.....
2750	500	5720	1.30	4900	1.11	3900	.89	.....	.....
3300	600	7150	2.35	6480	2.11	5800	1.91	5070	1.66
3850	700	8550	3.82	7970	3.55	7400	3.32	6850	3.05
4120	750	9220	4.75	8700	4.45	8200	4.20	7650	3.96
4680	850	10650	6.80	10150	6.70	9680	6.35	9180	6.00
5220	950	11950	9.80	11550	9.50	11100	9.15	10650	8.70
5500	1000	12600	11.5	12200	11.0	11850	10.8	11400	10.3

BW-45—WHEEL DIA. 23 3/4". OUTLET AREA 2.95 SQ. FT.

Tip Speed	R.P.M.	3/4" S.P.		1/2" S.P.		1/4" S.P.		1" S.P.	
		CFM	H.P.	CFM	H.P.	CFM	H.P.	CFM	H.P.
2490	400	6500	1.19	5330	.98	.....	.....	.....	.....
2800	450	7600	1.75	6550	1.53	5370	1.24	.....	.....
3420	550	9750	3.38	8900	3.10	8000	2.82	7100	2.48
4040	650	.....	.....	11000	5.32	10300	5.02	9600	4.60
4660	750	.....	.....	.....	.....	12500	8.10	11900	7.67
5280	850	.....	.....	.....	.....	.....	.....	14100	11.6
5600	900	.....	.....	.....	.....	.....	.....	15200	14.0

BW-50—WHEEL DIA. 26 1/2". OUTLET AREA 3.7 SQ. FT.

Tip Speed	R.P.M.	3/4" S.P.		1/2" S.P.		1/4" S.P.		1" S.P.	
		CFM	H.P.	CFM	H.P.	CFM	H.P.	CFM	H.P.
2430	350	7900	1.40	6320	1.13	.....	.....	.....	.....
2780	400	9500	2.20	8100	1.88	6570	1.53	.....	.....
3470	500	12350	4.50	11350	4.10	10300	3.77	9150	3.30
3820	550	.....	.....	12850	5.68	11900	5.25	10900	4.80
4510	650	.....	.....	.....	.....	15000	9.25	14200	8.70
4850	700	.....	.....	.....	.....	16600	11.8	15800	11.3
5380	775	.....	.....	.....	.....	.....	.....	11800	15.8
5550	800	.....	.....	.....	.....	.....	.....	18850	17.5

BW-55—WHEEL DIA. 29 1/4". OUTLET AREA 4.52 SQ. FT.

Tip Speed	R.P.M.	3/4" S.P.		1/2" S.P.		1/4" S.P.		1" S.P.	
		CFM	H.P.	CFM	H.P.	CFM	H.P.	CFM	H.P.
2680	350	11000	2.41	9350	2.05	7120	1.55	.....	.....
3060	400	13000	3.72	11600	3.28	10100	2.88	7900	2.24
3450	450	.....	.....	13700	4.95	12450	4.45	11100	3.97
4020	525	.....	.....	16700	8.20	15700	7.70	14650	7.15
4600	600	.....	.....	.....	.....	18800	12.1	17850	11.4
4980	650	.....	.....	.....	.....	.....	.....	20000	14.9
5360	700	.....	.....	.....	.....	.....	.....	22000	19.2

BW-60—WHEEL DIA. 32". OUTLET AREA 5.43 SQ. FT.

Tip Speed	R.P.M.	3/4" S.P.		1/2" S.P.		1/4" S.P.		1" S.P.	
		CFM	H.P.	CFM	H.P.	CFM	H.P.	CFM	H.P.
2510	300	12100	2.24	9950	1.84	.....	.....	.....	.....
2930	350	14850	3.74	12950	3.25	11000	2.77	.....	.....
3350	400	17400	5.70	15800	5.20	14150	4.70	12400	4.10
3770	450	.....	.....	18500	7.70	17100	7.05	15600	6.45
4180	500	.....	.....	21200	10.9	19900	10.3	18600	9.60
4600	550	.....	.....	.....	.....	22600	14.1	21600	13.3
5020	600	.....	.....	.....	.....	25300	18.7	24200	18.0
5450	650	.....	.....	.....	.....	.....	.....	26900	23.5

BW-70—WHEEL DIA. 37 1/2". OUTLET AREA 7.5 SQ. FT.

Tip Speed	R.P.M.	3/4" S.P.		1/2" S.P.		1/4" S.P.		1" S.P.	
		CFM	H.P.	CFM	H.P.	CFM	H.P.	CFM	H.P.
2450	250	16250	2.88	13150	2.33	.....	.....	.....	.....
2940	300	20500	5.30	18100	4.65	15500	3.97	.....	.....
3420	350	24800	8.70	22600	8.00	20500	7.20	18200	6.40
3920	400	.....	.....	27100	12.4	25200	11.6	23300	10.7
4400	450	.....	.....	.....	.....	29600	17.2	28000	16.2
4900	500	.....	.....	.....	.....	34000	24.4	32500	23.2
5380	550	.....	.....	.....	.....	.....	.....	36800	31.4

BW-80—WHEEL DIA. 43". OUTLET AREA 9.9 SQ. FT.

Tip Speed	R.P.M.	3/4" S.P.		1/2" S.P.		1/4" S.P.		1" S.P.	
		CFM	H.P.	CFM	H.P.	CFM	H.P.	CFM	H.P.
2530	225	22200	4.18	18400	3.46	.....	.....	.....	.....
2810	250	25400	5.95	22100	5.10	18200	4.20	.....	.....
3375	300	.....	.....	29000	9.70	26100	8.80	23200	7.70
3940	350	.....	.....	35500	16.3	33100	15.2	30800	14.0
4500	400	.....	.....	.....	.....	39800	23.6	37600	22.4
5060	450	.....	.....	.....	.....	.....	.....	44500	33.5
5350	475	.....	.....	.....	.....	.....	.....	47700	40.0

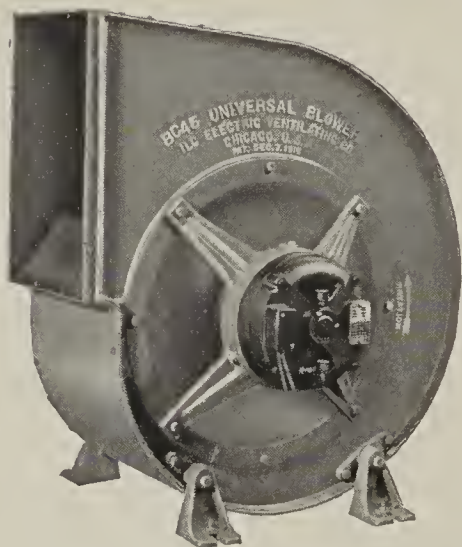
BW-90—WHEEL DIA. 48 1/2". OUTLET AREA 12.65 SQ. FT.

Tip Speed	R.P.M.	3/4" S.P.		1/2" S.P.		1/4" S.P.		1" S.P.	
		CFM	H.P.	CFM	H.P.	CFM	H.P.	CFM	H.P.
2540	200	28500	5.32	23500	4.40	23900	.....	.....	.....
2860	225	33200	7.85	28900	6.85	23900	5.65	.....	.....
3490	275	.....	.....	38800	13.8	35400	12.6	31400	11.2
3810	300	.....	.....	45800	18.3	40300	17.0	37000	15.2
4125	325	.....	.....	.....	.....	45200	22.4	42200	20.8
4750	375	.....	.....	.....	.....	.....	.....	52100	34.6
5080	400	.....	.....	.....	.....	.....	.....	57000	45.5

Interpolation of the figures for other speeds should be made as follows:

- (1) The air delivery varies directly with the speed.
- (2) The static pressure varies as the square of the speed
- (3) The horsepower varies as the cube of the speed.

TYPE "BC" BLOWERS

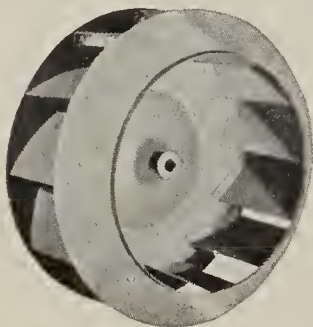


The ILG Type "BC" Direct-Connected Universal Blower is of the load limiting type with backward curved blades. It is particularly suitable for those applications where the static resistance may vary. In this design the motor load remains constant over an unusually large range of air volume and over a considerable change in static pressure. The housing construction and method of direct-connected drive is the same as that of the type "B" ILG blower.

The Type "BC" wheel is made of special heat-treated aluminum for extreme strength and maximum lightness. This increases the bearing life and lightens the motor starting load.

Each blower is complete with housing, wheel and motor.

It is shipped ready for placement and connection to a power circuit. Eleven sizes are available with motors for all commercial circuits and voltages.



Type "BC" ILG blowers are also available for belted drive, using a drive design similar to the "BW" blower described on page 32. They are available in BC/25 to BC/90 single width, single inlet sizes and in BC/50 to BC/90 double width, double inlet sizes.

ILG TYPE "BC" DIRECT-CONNECTED UNIVERSAL BLOWERS

Speed, Capacity and Brake Horsepower at Various Pressures for 60 Cycle and Direct Current

Size	R.P.M.	STATIC PRESSURE																	
		3/4"		15"		1 1/4"		1"		1 1/2"		1 3/4"		2"		2 1/2"		3"	
		CFM	H.P.	CFM	H.P.	CFM	H.P.	CFM	H.P.	CFM	H.P.	CFM	H.P.	CFM	H.P.	CFM	H.P.	CFM	H.P.
BC-25	1140	1050	.10	825	.37	1520	.37	1375	.37	1225	.37	1065	.37	860	.36	730	.36	600	.36
	1750	1790	.37	1650	.37	1520	.37	1375	.37	1225	.37	1065	.37	860	.36	730	.36	600	.36
BC-30	1140	2010	.28	1760	.28	1480	.28	1200	.27	1060	.27	920	.27	780	.27	640	.27	500	.27
	1750	3300	.99	3135	.99	2960	.99	2785	.99	2610	.99	2440	.99	2260	.99	2090	.98	1920	.98
BC-35	855	2350	.30	1950	.30	1500	.25	1200	.25	1000	.25	850	.25	700	.25	550	.25	400	.25
	1140	3400	.60	3100	.60	2800	.60	2475	.60	2150	.60	1750	.58	1450	.58	1200	.58	1000	.58
BC-40	855	3750	.55	3280	.55	2800	.55	2250	.55	1800	.45	1300	.45	1000	.45	800	.45	600	.45
	1750	8375	4.52	8160	4.52	7950	4.52	7720	4.52	7500	4.52	7280	4.52	7050	4.52	6800	4.52	6550	4.52
BC-45	685	4220	.50	3600	.50	2850	.50	1800	.46	1300	.46	1000	.46	800	.46	600	.46	400	.46
	855	5570	.98	5050	.98	4500	.98	3950	.98	3400	.98	2850	.92	2300	.92	1750	.92	1200	.92
BC-50	685	6050	.85	5300	.85	4500	.85	3750	.85	3000	.70	2250	.70	1500	.70	1000	.70	750	.70
	1140	10780	3.93	10350	3.93	9890	3.93	9450	3.93	9000	3.93	8500	3.93	8070	3.93	7600	3.93	7150	3.93
BC-55	570	6600	.82	5600	.82	4550	.82	3300	.82	2400	.82	1800	.82	1200	.82	800	.82	600	.82
	855	8300	1.42	7500	1.42	6650	1.42	5800	1.42	4900	1.42	3900	1.32	3000	1.32	2100	1.32	1200	1.32

CONTINUED

STATIC PRESSURE

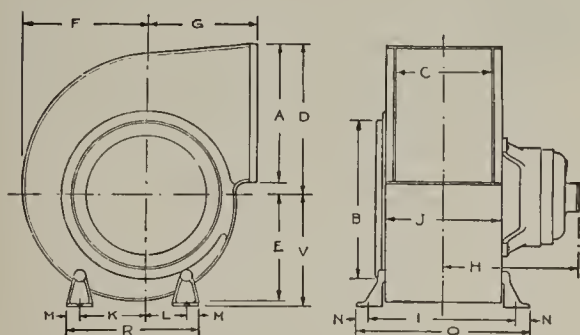
Size	R.P.M.	1 1/4"		1 1/2"		1 3/4"		2"		2 1/4"		3"	
		1 1/4"		1 1/2"		1 3/4"		2"		2 1/4"		3"	
		CFM	H.P.	CFM	H.P.	CFM	H.P.	CFM	H.P.	CFM	H.P.	CFM	H.P.
BC-60	570	8900	1.27	7750	1.27	6600	1.15	5500	1.27	4300	1.15	3200	1.15
	685	11020	2.22	10100	2.22	9200	2.22	8250	2.22	7300	2.22	6400	2.22
	855	14200	4.30	13500	4.30	12750	4.30	12000	4.30	11250	4.30	10500	4.30
BC-70	570	14700	2.85	13400	2.85	12200	2.85	10800	2.85	9500	2.85	8150	2.85
	685	18150	4.85	17100	4.85	16000	4.85	14900	4.85	13800	4.85	12800	4.85
	855	23180	9.55	22250	9.55	21400	9.55	20500	9.55	19650	9.55	18800	9.55
BC-80	490	19100	3.57	17350	3.57	15600	3.57	13900	3.57	12150	3.57	10100	3.57
	570	22700	5.60	21250	5.60	19800	5.60	18300	5.60	16800	5.60	15300	5.60
	685	27900	9.70	26600	9.70	25400	9.70	24150	9.70	22900	9.70	21700	9.70
BC-90	490	27700	6.50	25800	6.50	23900	6.50	22000	6.50	20000	6.50	18000	6.50
	570	33000	10.20	31300	10.20	29600	10.20	28000	10.20	26200	10.20	24500	10.20
	685	40250	17.60	38800	17.60	37500	17.60	36000	17.60	34700	17.60	33200	17.60

SHIPPING WEIGHTS IN POUNDS

Current	BC25		BC30		BC35		BC40		BC45		BC50		BC55		BC60		BC70		BC80		BC90	
	BC25		BC30		BC35		BC40		BC45		BC50		BC55		BC60		BC70		BC80		BC90	
2-3 phase.....	220	300	300	300	350	350	530	530	650	650	850	850	950	950	1200	1200	1650	1650	2100	2100	2800	2800
1 phase.....	220	300	300	300	350	350	530	530	650	650	850	850	950	950	1200	1200	1650	1650	2100	2100	2800	2800
D. C.....	230	320	320	320	375	375	575	575	725	725	950	950	1000	1000	1400	1400	1900	1900	2400	2400	3300	3300

These weights are approximate. See ILG Blower Catalog for exact weights.

DIMENSIONS OF TYPE "BC" DIRECT CONNECTED UNIVERSAL BLOWERS



Size	Wheel Dia.	A	B	C	D	E	F	G	H AC	H DC
25	12 $\frac{3}{4}$	13	13	9	14 $\frac{1}{8}$	10	11 $\frac{3}{4}$	10 $\frac{1}{8}$	14 $\frac{3}{4}$	19 $\frac{1}{2}$
30	15 $\frac{1}{2}$	16	16	11	17 $\frac{3}{8}$	12 $\frac{1}{8}$	14 $\frac{1}{4}$	12	15	19 $\frac{1}{2}$
35	18 $\frac{1}{4}$	19	19	13	20 $\frac{1}{2}$	14 $\frac{1}{4}$	16 $\frac{3}{4}$	14	17	23 $\frac{1}{2}$
40	21	22	22	15	23 $\frac{5}{8}$	16 $\frac{3}{8}$	19 $\frac{1}{4}$	16	20	26 $\frac{5}{8}$
45	23 $\frac{3}{4}$	25	25	17	26 $\frac{3}{4}$	18 $\frac{1}{2}$	21 $\frac{3}{4}$	18	20	27
50	26 $\frac{1}{2}$	28	28	19	29 $\frac{7}{8}$	20 $\frac{5}{8}$	24 $\frac{1}{4}$	20	21	30
55	29 $\frac{1}{4}$	31	31	21	33	22 $\frac{3}{4}$	26 $\frac{3}{4}$	22	21 $\frac{1}{2}$	31
60	32	34	34	23	36 $\frac{1}{8}$	24 $\frac{7}{8}$	29 $\frac{1}{4}$	24	21 $\frac{1}{2}$	33 $\frac{1}{2}$
70	37 $\frac{1}{2}$	40	40	27	41 $\frac{5}{8}$	30 $\frac{1}{8}$	35 $\frac{1}{4}$	27 $\frac{1}{8}$	29 $\frac{5}{8}$	41
80	43	46	46	31	48 $\frac{1}{8}$	34 $\frac{3}{8}$	40 $\frac{1}{4}$	31 $\frac{1}{8}$	31 $\frac{1}{4}$	42 $\frac{1}{2}$
90	48 $\frac{1}{2}$	52	52	35	54 $\frac{1}{8}$	38 $\frac{5}{8}$	45 $\frac{1}{4}$	34 $\frac{5}{8}$	37 $\frac{1}{4}$	45

Size	Wheel Dia.	I	J	K	L	M	N	O	P	R	V
25	12 $\frac{3}{4}$	14 $\frac{1}{4}$	10 $\frac{1}{4}$	6	3 $\frac{3}{4}$	1 $\frac{1}{4}$	$\frac{3}{4}$	15 $\frac{3}{4}$	$\frac{5}{8}$	12 $\frac{1}{4}$	10 $\frac{1}{2}$
30	15 $\frac{1}{2}$	17	12 $\frac{1}{2}$	7 $\frac{1}{4}$	4 $\frac{1}{2}$	1 $\frac{1}{2}$	1	19	$\frac{5}{8}$	14 $\frac{3}{4}$	12 $\frac{3}{4}$
35	18 $\frac{1}{4}$	19 $\frac{3}{4}$	14 $\frac{3}{4}$	8 $\frac{1}{2}$	5 $\frac{1}{4}$	1 $\frac{3}{4}$	1 $\frac{1}{8}$	22	$\frac{5}{8}$	17 $\frac{1}{4}$	14 $\frac{3}{4}$
40	21	22 $\frac{1}{2}$	17	9 $\frac{3}{4}$	6 $\frac{1}{4}$	2	1 $\frac{3}{8}$	25 $\frac{1}{4}$	$\frac{3}{4}$	20	17
45	23 $\frac{3}{4}$	25 $\frac{1}{4}$	19 $\frac{1}{8}$	11	7	2 $\frac{1}{4}$	1 $\frac{5}{8}$	28 $\frac{1}{2}$	$\frac{3}{4}$	22 $\frac{1}{2}$	19
50	26 $\frac{1}{2}$	28 $\frac{1}{4}$	21 $\frac{3}{8}$	12 $\frac{1}{2}$	8	2 $\frac{1}{2}$	1 $\frac{3}{4}$	31 $\frac{1}{4}$	$\frac{7}{8}$	25 $\frac{1}{2}$	21
55	29 $\frac{1}{4}$	31	23 $\frac{5}{8}$	13 $\frac{3}{4}$	8 $\frac{1}{2}$	2 $\frac{3}{4}$	2	35	$\frac{7}{8}$	27 $\frac{3}{4}$	23 $\frac{1}{2}$
60	32	33 $\frac{3}{4}$	25 $\frac{7}{8}$	15	9 $\frac{1}{2}$	3	2 $\frac{1}{4}$	38 $\frac{1}{4}$	1	30 $\frac{1}{2}$	25 $\frac{1}{2}$
70	37 $\frac{1}{2}$	38	30	15	10	3 $\frac{1}{2}$	3	44	1	32	30 $\frac{1}{2}$
80	43	43	30 $\frac{5}{8}$	17	12	4	3 $\frac{1}{2}$	50	1 $\frac{1}{8}$	37	35
90	48 $\frac{1}{2}$	49	34 $\frac{5}{8}$	19	14	4 $\frac{1}{2}$	4	57	1 $\frac{1}{8}$	42	39

TYPE "B" VOLUME BLOWERS



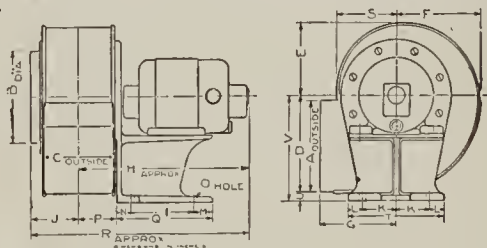
The new ILG Type "B" Volume Blowers are suitable for all kinds of small volume, low pressure installations. The latest development in small blowers of this type, they combine surpassing high efficiency and low power consumption. They are quiet and smooth running.

The housing and multi-blade wheel are die-cut steel. The wheel is carefully balanced. The inlet flange and the base which bears both housing and the direct connected motor, are cast iron. Discharge is universal. Note discharge arrangement on page 42. Table shows capacities in C. F. M. against inches static pressure.

PERFORMANCE TABLE

Size	R.P.M.	H.P.	1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1"	1 1/4"	1 1/2"	1 3/4"
B9	1140	1/70	145	100	...	...	...	...	...	...	...	...	...
	*1425	1/30	200	170	120	...	...	...	...	...	...	...	...
	1750	1/20	255	235	205	170	...	...	...	...	...	...	...
B12	1140	1/20	370	320	250	...	...	...	...	...	...	...	...
	*1425	1/10	475	450	400	350	250	...	...	...	...	...	...
	1750	1/6	...	...	515	475	435	390	300	...	...	...	...
B15	855	1/15	520	430	300	...	...	...	...	...	...	...	...
	1140	1/7	...	680	610	530	400	...	...	...	...	...	...
	*1425	1/3	940	900	860	810	750	680	600	470	...	...	...
	1750	1/2	...	...	...	...	1030	990	940	900	780	600	...
B18	*710	1/8	750	630	400	...	...	...	...	...	...	...	...
	855	1/7	...	820	710	500	...	...	...	...	...	...	...
	1140	1/3	...	...	1140	1070	985	880	720	...	...	...	...
	*1425	2/3	...	...	...	...	1410	1350	1280	1210	1030	...	...
B21	1750	1 1/4	...	...	...	...	...	1800	1770	1720	1610	1490	1360
	*710	1/5	1210	1100	930	600	...	...	...	...	...	...	...
	855	1/3	1450	1380	1260	1130	960	750	...	...	...	...	...
	1140	3/4	...	...	1880	1800	1700	1620	1500	1400	1000	...	...
	*1425	1 1/2	...	...	...	2400	2340	2270	2200	2130	1980	1800	1570

*710 R.P.M. and 1425 R.P.M. on 25 Cycle only. See page 42 for discharge.



Size	A	B	C	D	E	F	G	H	I	J	K	L
B-9	4 3/4	4 3/4	3 3/4	5	3 3/4	4 5/8	4	8 1/2	3 1/4	2 1/2	1 3/4	3/4
B-12	6 1/4	6 1/4	5	6 5/8	4 1/8	5 5/8	5 1/4	11 1/2	4 3/4	3 3/8	2 1/2	3/4
B-15	7 3/4	7 3/4	6 1/8	8 1/4	6	7	6 1/2	14	6	3 1/8	3 1/4	3/4
B-18	9 1/4	9 1/4	7 1/4	9 7/8	7 1/8	8 3/8	7 3/4	17 1/2	7 1/2	4 1/2	4	3/4
B-21	10 3/4	10 3/4	8 1/2	11 1/2	8 5/8	9 3/4	9	20 3/4	5 3/4	8 3/4	4 3/4	3/4

Size	M	N	O	P	Q	R	S	T	U	V	Shipping Weight
B-9	3/4	1	3/8	2	5	11 3/8	3 1/8	5	1/2	5 1/2	45 lbs.
B-12	3/4	1	3/8	2 5/8	6 1/2	15	4 1/8	6 1/2	5/8	7 1/4	75 lbs.
B-15	3/4	1 1/4	1 1/8	3 1/8	8	17 1/8	5	8	1 1/2	8 3/4	120 lbs.
B-18	3/4	1 1/4	1 1/8	3 3/4	9 1/2	22	6	9 1/2	1 5/8	10 1/2	160 lbs.
B-21	3/4	1 1/2	1 1/8	4 3/8	11	26 1/8	7	11	3/4	12 1/4	225 lbs.

TYPE "P" VOLUME BLOWERS



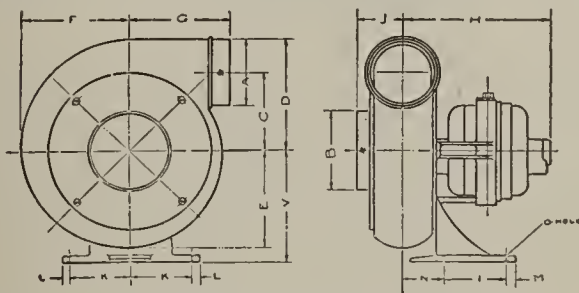
The ILG Direct-Connected Electric Volume Blowers are applicable for exhausting dust and fumes from laboratories and polishing rooms, removal of steam and heavy vapors from cooking vats in dye houses, breweries, canning factories, etc.

The discharge can be changed to four different positions, making it possible to install the blower from different angles, thus avoiding friction in short bends.

These blowers are particularly suitable for laboratory exhaust because housing is of cast-iron and wheel of cast aluminum, steel or cast-iron as desired.

Blower Size No.	Rated R.P.M.	Static Pressure in Inches of Water											
		1/4		1/2		3/4		1		1 1/2		2	
		CFM	Watts Input	CFM	Watts Input	CFM	Watts Input	CFM	Watts Input	CFM	Watts Input	CFM	Watts Input
7 1/2 P	3400	215	190	210	190	200	185	190	180	165	175	135	170
10 P	*1420	175	100	145	90	100	85	50	80	0	.....	.....	.....
10 P	1720	270	150	235	149	200	148	160	146	85	138	0	.....
15 P	*1420	320	130	250	105	185	95	110	90	0	.....	.....	.....
15 P	1720	415	230	375	215	330	200	280	190	150	165	0	.....
20 P	*1420	1030	460	980	440	920	420	850	390	710	340	550	280
20 P	1720	1180	820	1130	780	1085	765	1040	740	945	685	845	635

*1420 Speed on 25 Cycle only. See Page 42 for discharge arrangement numbers.



Principal Dimensions

Size	A	B	C	D	E	F	G	H A.C.	H D.C.	I	J	K	L	M	N	O	V
7 1/2	3	4 7/8	4 1/4	5 3/4	5	5 3/8	4 1 1/16	9 1/2	10	3	2 1/8	2 1 1/16	3/8	1 1/2	2 3/4	9 3/2	6 3/8
10	3 5/8	5 1/2	5 3/16	7	5 7/8	6 7/16	5 1/2	9 1/2	10	3	2	3	1 1/2	3 3/4	2	11 3/2	7 7/8
15	5	5 7/8	5 1/4	7 3/4	6 7/8	7 5/16	7 1/2	11	12	4 3/4	3 5/16	4 1/2	1 1/2	1 1/2	2 7/8	8 3/8	8 1/8
20	6 3/4	7 3/4	7	10 9/16	9 5/16	9 1 1/16	9 1 1/16	14 3/8	16 3/4	2 5/8	4 9/16	5	1	1	5 5/16	7 1/16	11

BLOWER DISCHARGES



No 1-F
COUNTER-CLOCKWISE
TOP HORIZONTAL



No 2-F
CLOCKWISE
TOP HORIZONTAL



No 3-F
CLOCKWISE
BOTTOM HORIZONTAL



No 4-F
COUNTER-CLOCKWISE
BOTTOM HORIZONTAL



No 5-F
CLOCKWISE
UP BLAST



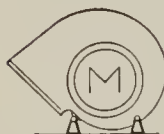
No 6-F
COUNTER-CLOCKWISE
UP BLAST



No 7-F
COUNTER-CLOCKWISE
DOWN BLAST



No 8-F
CLOCKWISE
DOWN BLAST



No 9-F
COUNTER-CLOCKWISE
TOP ANGULAR DOWN



No 10-F
CLOCKWISE
TOP ANGULAR DOWN



No 11-F
CLOCKWISE
BOTTOM ANGULAR UP



No 12-F
COUNTER-CLOCKWISE
BOTTOM ANGULAR UP



No 13-F
COUNTER-CLOCKWISE
TOP ANGULAR UP



No 14-F
CLOCKWISE
TOP ANGULAR UP



No 15-F
CLOCKWISE
BOTTOM ANGULAR DOWN



No 16-F
COUNTER-CLOCKWISE
BOTTOM ANGULAR DOWN



No 21-C
COUNTER-CLOCKWISE
TOP HORIZONTAL



No 22-C
CLOCKWISE
TOP HORIZONTAL



No 23-C
CLOCKWISE
BOTTOM HORIZONTAL



No 24-C
COUNTER-CLOCKWISE
BOTTOM HORIZONTAL

Other discharges are shown in the ILG blower catalog.

UNIT HEATERS



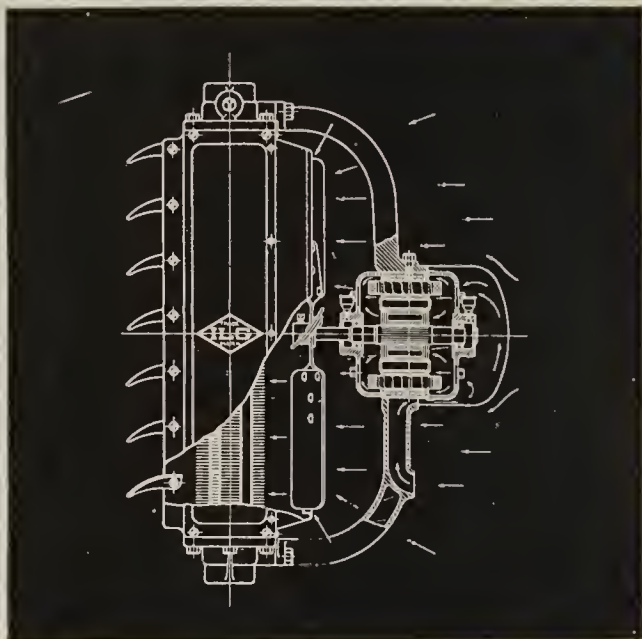
The new ILG unit heater has won its way into factories, stores, offices, garages, etc., everywhere by sheer ability to heat any floor space better and faster—at lower cost.

Pioneered in 1916 by ILG Electric Ventilating Co. the ILG unit heater very effectively keeps the heated air at the floor level and prevents stratification of heat at the ceiling where it is largely wasted. The forced air movement developed by the smooth running powerful ILG Self-Cooled Motor Propeller Fan distributes heat instantaneously, eliminating the need of hot overnight fires or early morning firing up.

Suspended from the ceiling or walls the ILG unit heater uses no floor space. Because of its forced, even heating it actually makes available exposed space near doors and windows that would be uncomfortable and difficult to use during the cold weather.

One ILG unit heater will replace a number of ordinary radiators and many feet of pipe coil and affords substantial savings in labor installation costs, fittings, valves, etc. It is available in single, two and three speed units and in a number of sizes for exact selection. Operation may be manual, by thermostat, or by steam regulator. The louvers are individually deflectable.

SELF-COOLED MOTOR

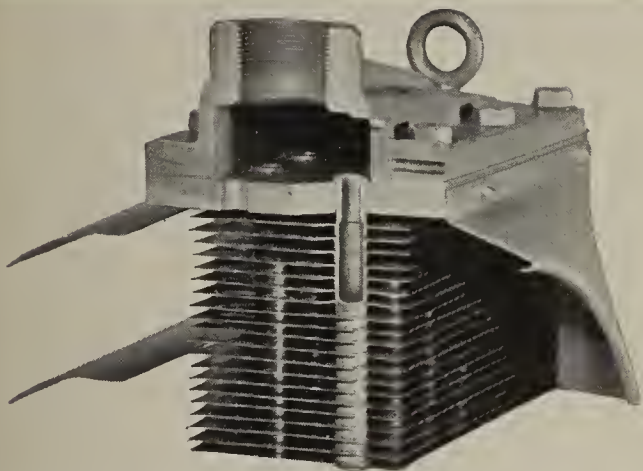


The complete ILG unit heater including the coil and motor is made in the ILG factory by skilled ILG craftsmen. This uniformity of design and construction assures balanced performance and makes possible the famous "One Nameplate" guarantee that covers every ILG product. Here is undivided ILG responsibility.

ILG unit heater motors are built solely for use with ILG unit heaters producing operating efficiencies unattainable with the ordinary general purpose motor. An exclusive feature is the self-cooling action which protects the ILG unit heater motor from the baking the ordinary unit heater motor gets from its close proximity to the heating coil.

The ILG motor is an open motor that is enclosed and protected by a metal hood. In operation the fan action draws air up through the lower hollow motor support, circulates it through the motor and exhausts it. During those periods when the fan is not being operated, the ILG motor is still protected from the coil heat by the air movement induced through the vent pipe and motor through stack action. Follow the arrows in the above sketch. Only the ILG unit heater has this "Invisible Air Wall" that screens the ILG motor from the heat and only the ILG motor offers the economy of the open motor with the protection of the enclosed motor.

COIL CONSTRUCTION



Every ILG unit heater coil is tested with 500 pounds of hydrostatic pressure and can be used over the complete range of low and high steam pressures and with hot water. Copper fins are pressed onto seamless round copper tubes on special machines that assure a permanent union between tube and fin and prevent oxidation of the contact surface. The fins are flanged onto the tubes to increase the heat transfer. No soldering, brazing or welding is used anywhere on the ILG unit heater coil. The fins are smooth and flat. They stay clean and decrease air turbulence.

By means of brass orifice bushings the tubes are expanded into the headers following standard boiler tube practice. Complete provision for coil expansion is made. The full floating of the bottom header is assured by the use of slotted coil retainers and spring washers which permit expansion and contraction of the coil independently of the casing of the heater.

WEIGHTS AND DIMENSIONS

Series No.	OVERALL DIMENSIONS			Pipe Tap	WEIGHT LBS.	
	Height	Width	Depth		Net	Shipping
10	18"	12½"	15"	1¼"	65	75
13	21"	15½"	18½"	1¼"	115	130
17	24"	18½"	19¼"	1½"	170	185
19	27"	21½"	21¼"	1½"	205	225
25	35"	27¾"	28"	2½"	415	440
19-2	32"	41¾"	21¼"	3"	390	450
31	42"	33½"	31"	2½"	500	540

UNIT HEATER DATA

60-CYCLE A.C. AND D.C. MOTOR SPEEDS
60° F. ENTERING AIR 2 LBS. STEAM

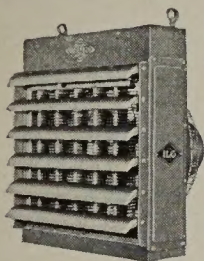
Unit	R.P.M.	B.T.U.	Leav- ing Temp.	¹ C.F.M.	Watts	² E.D.R.	Cond.
10-1S6	1550	18,600	111	385	40	77.5	18
10-S6	1550	28,400	134	385	40	118	30
13-G6	1140	37,000	134	460	55	154	38
13-D6	1140	47,000	132	600	65	196	49
13-E6	855	51,000	134	640	55	213	53
13-E6	1140	60,000	126	850	90	250	62
13-H6	855	57,800	131	750	60	240	60
13-H6	1140	72,500	125	1000	95	310	75
13-F6	1750	87,000	120	1300	185	373	91
17-D6	855	68,500	137	825	45	285	71
17-D6	1140	84,000	131	1100	95	350	87
17-T6	855	79,000	133	1000	80	329	82
17-T6	1140	100,000	128	1350	120	417	104
17-H6	855	100,000	128	1350	100	417	104
17-H6	1140	120,000	122	1800	175	500	124
17-F6	1750	142,000	114	2500	375	592	147
19-D6	855	105,500	131	1500	90	440	110
19-D6	1140	140,000	125	2000	180	584	145
19-E6	855	135,000	127	1900	95	563	140
19-E6	1140	162,000	123	2400	190	675	168
19-H6	855	153,000	124	2250	120	638	159
19-H6	1140	186,000	119	3000	340	776	193
19-F6	1750	210,000	112	4000	500	876	217
25-D6	685	182,000	133	2310	185	760	189
25-D6	855	216,000	129	2900	400	900	224
25-E6	685	217,000	128	2960	220	905	225
25-E6	855	250,000	123	3710	475	1040	259
25-F6	1140	275,000	118	4250	600	1146	285
19-2E6	855	270,000	127	3800	190	1126	280
19-2E6	1140	324,000	123	4800	380	1350	336
19-2H6	855	306,000	124	4500	240	1250	310
19-2H6	1140	372,000	119	6000	680	1500	363
19-2F6	1750	420,000	112	8000	1000	1750	434
31-D6	685	238,000	137	2850	220	993	247
31-D6	855	280,000	132	3560	475	1167	290
31-E6	685	288,000	132	3700	350	1200	298
31-E6	855	332,000	126	4630	510	1382	344
31-H6	685	332,000	127	4750	460	1382	344
31 H6	855	394,000	123	5800	700	1641	407
31-F6	1140	436,000	119	6900	1100	1818	452

Ratings apply only to recirculation and free discharge. ¹C.F.M. = Cubic feet per minute of standard air at 70° F. and standard basis of rating (2 lb. steam pressure 60° F. entering air) . . . ²E.D.R. = Equivalent direct radiation at standard basis of rating.

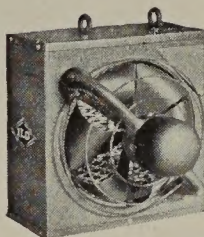
Where steam pressure is referred to as a condition of rating it is meant to be the gauge pressure maintained on the heating surface and to determine the pressure required at the boiler a suitable line drop must be allowed for . . . Where heaters are to handle air at temperatures below freezing it is recommended that a minimum pressure of five pounds gauge should be maintained on the heating surface.

11g Unit Heaters are tested and rated in accordance with the Standard Code adopted by the Industrial Unit Heater Association and the American Society of Heating and Ventilating Engineers.

ELECTRIC UNIT HEATERS



No. 513



Type HT.

For installations where the use of the regular ILG unit heater with steam or hot water is not practical, there is nothing like the ILG Electric Unit Heater. It offers every advantage of all-electric space heating together with the more efficient heat distribution of the ILG fan. It eliminates the central heating plant, pipe lines and caretakers. It heats instantly and uniformly at the turn of a switch. It is clean, safe and dependable. The heating coil is of the black heat type which operates below 250 degrees F.; it is protected against excessive temperature rise by a patented automatic thermal cutout in conjunction with a magnetic starter. Individually controllable air deflectors, fan guard and eye bolts for suspension are additional features.

The standard ILG Electric Unit Heater is available in sizes from 5KW to 60KW.

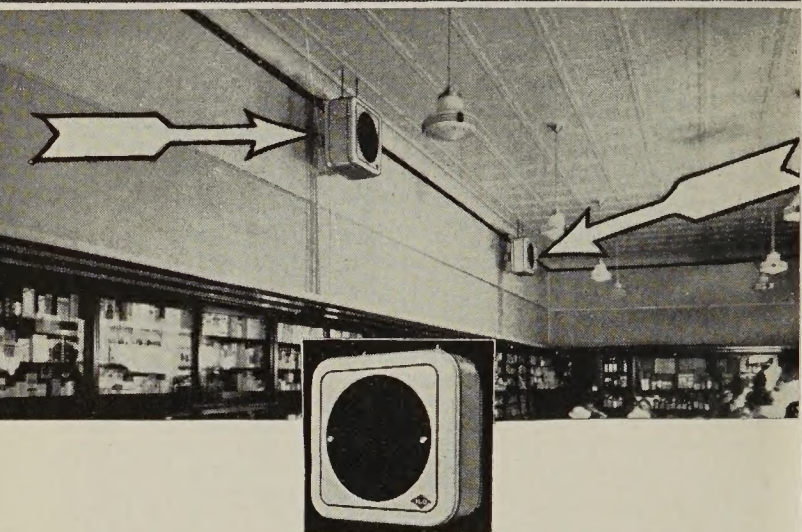
The Type HT ILG Electric Unit Heater provides capacities from 1½ KW to 5KW. The heating coil is non-overheating black heat type with individually interchangeable elements. An automatic circuit breaker protects the ILG Self-Cooled Motor Propeller Fan from any overload. No controller is required except when thermostatic control is desired. The type HT unit is suitable for constant duty.

Catalogue Number	Capacity K. W.	Capacity B. T. U.	C. F. M.	R. P. M.	Frame Size	Shpg. Weight
513	5	17100	335	855	13EU	75
613	6	20500	465	855	13EU	75
913	9	30800	600	1140	13EU	80
917	9	30800	600	855	17EU	125
1213	12	41000	800	1140	13EU	80
1217	12	41000	800	855	17EU	125
1513	15	51200	1000	1140	13EU	80
1517	15	51200	1000	855	17EU	125

Catalogue Number	Capacity K. W.	Capacity B. T. U.	R. P. M.	C. F. M.	Net Weight
110HT	1½	5100	1550	400	21
210HT	2	6800	1550	400	21
310HT	3	10200	1550	400	21
410HT	4	13600	1550	400	21
510HT	5	17100	1550	400	21

No Controller is Necessary with ILG Type HT Units.

CEILING TYPE COOLING UNITS



ILG Ceiling Type Air Conditioning units provide a comparatively simple and inexpensive way to air condition any space. They are used singly or in multiple with a remotely located refrigerating machine circulating direct expansion "Freon" or Methyl Chloride; or with cold water that is preferably below 56 degrees F. Used with either arrangement these air conditioners cool, dehumidify and recirculate the air.

The unit consists of a copper cooling coil, expansion valve (for direct expansion work), ILG Self-Cooled Motor Propeller Fan, guards and drain pan. It is encased in an attractive ivory enamel cabinet provided with a circular grille which permits deflection of the conditioned air in any direction. All connections are made at the rear of the unit. Other ILG air-conditioning include the Self-Contained Spot Coolers, floor type units and the central system units. The latter two are available for year-around air conditioning.

DIRECT EXPANSION		COLD WATER		Watts	C. F. M.
Model No.	B. T. U.* Capacity	Model No.	B. T. U.† Capacity		
135CU	17009	W135CU	17800	45	810
175CU	25100	W175CU	26800	50	1220
195CU	36500	W195CU	36800	125	1970
255CU	53600	W255CU	46600	140	2500

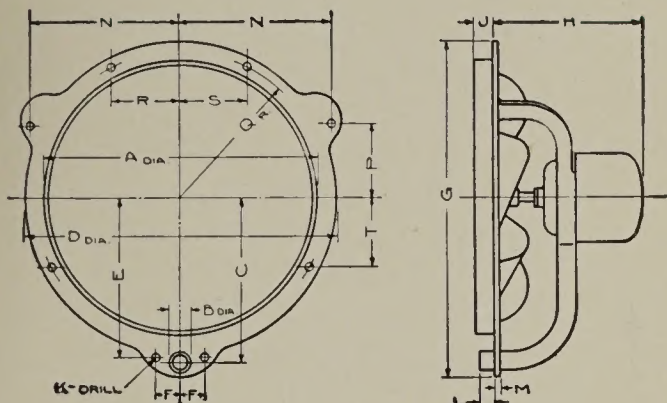
*Rating applies to following conditions: 40° suction temperature of refrigerant at unit cooler surface; relative humidity of air entering unit, 50%, dry bulb temperature 85°.

Ratings apply only to recirculation and free discharge of air, a uniform flow of refrigerant to and from the unit, and a liquid refrigerant temperature of 86° F.

†On basis of 3.82 gallons of water per minute at a temperature of 50° F. with entering air temperature of 85° F. dry bulb and relative humidity of 50%.

DIMENSIONS

ILG SELF-COOLED MOTOR PROPELLER FANS



Measurements A and B are diameter of opening to be cut for installation

Dimensions in Inches

Size	A	B	C	D	E	F	G	H	J	K	L	M	N	P
Ilgette														
12	12 $\frac{1}{4}$	1 $\frac{3}{16}$	7 $\frac{3}{16}$	13 $\frac{1}{2}$	7 $\frac{3}{16}$	1 $\frac{3}{16}$	14 $\frac{3}{4}$	8 $\frac{1}{8}$						3 $\frac{1}{16}$
16	16 $\frac{1}{4}$	1 $\frac{1}{4}$	9 $\frac{3}{4}$	18	9 $\frac{3}{8}$	1 $\frac{1}{2}$	19 $\frac{1}{16}$	9 $\frac{1}{4}$	1	3 $\frac{1}{4}$	1 $\frac{1}{2}$	1 $\frac{1}{4}$	6 $\frac{9}{16}$	4
18	18 $\frac{1}{2}$	1 $\frac{1}{4}$	11 $\frac{1}{16}$	21	10 $\frac{11}{16}$	1 $\frac{1}{16}$	22 $\frac{1}{16}$	10 $\frac{1}{4}$	1 $\frac{5}{8}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{3}{8}$	10 $\frac{1}{8}$	4 $\frac{5}{8}$
20	20 $\frac{5}{8}$	1 $\frac{3}{4}$	12 $\frac{7}{8}$	23 $\frac{7}{8}$	12 $\frac{5}{16}$	2 $\frac{5}{16}$	26 $\frac{3}{8}$	10 $\frac{7}{8}$	1	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	11 $\frac{3}{8}$	5 $\frac{1}{16}$
24	24 $\frac{3}{4}$	2 $\frac{1}{8}$	15	28 $\frac{1}{8}$	14 $\frac{7}{16}$	2 $\frac{1}{2}$	30 $\frac{1}{2}$	16	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	13 $\frac{3}{8}$	6 $\frac{1}{4}$
30	30 $\frac{3}{4}$	3	18 $\frac{1}{2}$	34 $\frac{1}{2}$	17 $\frac{3}{4}$	3 $\frac{1}{4}$	37 $\frac{3}{4}$	17	2 $\frac{1}{8}$	2 $\frac{1}{8}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	16 $\frac{5}{8}$	7 $\frac{5}{8}$
36	36 $\frac{7}{8}$	3 $\frac{5}{8}$	21 $\frac{5}{8}$	40 $\frac{7}{8}$	20 $\frac{1}{2}$	3 $\frac{1}{2}$	44 $\frac{1}{2}$	20 $\frac{1}{2}$	2 $\frac{1}{8}$	2 $\frac{1}{8}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	19 $\frac{1}{8}$	8 $\frac{1}{4}$
42	42 $\frac{7}{8}$	4 $\frac{1}{8}$	25 $\frac{1}{8}$	46 $\frac{3}{4}$	24 $\frac{3}{16}$	3 $\frac{1}{4}$	51 $\frac{1}{8}$	20 $\frac{1}{2}$	2 $\frac{1}{4}$	2 $\frac{1}{4}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	22 $\frac{1}{8}$	10 $\frac{3}{8}$
48	49 $\frac{7}{8}$	4 $\frac{1}{8}$	29 $\frac{1}{8}$	54 $\frac{3}{4}$	28 $\frac{1}{4}$	4	60	24 $\frac{3}{4}$	2 $\frac{1}{2}$	2 $\frac{1}{2}$	1 $\frac{5}{8}$	1 $\frac{5}{8}$	25 $\frac{5}{8}$	11 $\frac{1}{4}$
54	55 $\frac{3}{4}$	5	33 $\frac{1}{8}$	60 $\frac{5}{8}$	31 $\frac{9}{16}$	4 $\frac{5}{8}$	67 $\frac{1}{2}$	25 $\frac{1}{2}$	2 $\frac{1}{2}$	2 $\frac{1}{2}$	1 $\frac{5}{8}$	1 $\frac{5}{8}$	28 $\frac{3}{4}$	13 $\frac{1}{4}$
60	61 $\frac{1}{8}$	6	36 $\frac{1}{8}$	66 $\frac{3}{4}$	34	4 $\frac{5}{8}$	72 $\frac{7}{8}$	30	2 $\frac{5}{8}$	2 $\frac{5}{8}$	1 $\frac{5}{8}$	1 $\frac{5}{8}$	29 $\frac{3}{4}$	17 $\frac{1}{4}$
72	73 $\frac{1}{4}$	5 $\frac{1}{2}$	44 $\frac{1}{8}$	79 $\frac{1}{4}$	40 $\frac{1}{2}$	6 $\frac{7}{8}$	88 $\frac{1}{4}$	32 $\frac{1}{2}$	3	3	2	2	35 $\frac{3}{4}$	20 $\frac{5}{8}$

Dimensions "H" varies on different types but maximum if shown
Dimensions Q,R,S,T apply only to sizes over 36" and are available on request.



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